E83-10407

SR-L3-04426
JSC-18884

CR-171 683

AgRISTARS

A Joint Program for Agriculture and Resources Inventory Surveys Through Aerospace Remote Sensing

Supporting Research

June 1983

ARGENTINA SPECTRAL-AGRONOMIC MULTITEMPORAL DATA SET

D. Helmer, C. Kinzler, and M. A. Tompkins
Lockheed Engineering and Management Services Company, Inc.

G. D. Badhwar

NASA
National Aeronautics and Space Administration

Lyndon B. Johnson Space Center
Houston, Texas 77058

Earth Resources Research Division
Lyndon B. Johnson Space Center
Houston, Texas 77058

1. Report No.	2. Government Accession No.	3. Recipient's Catalog No.
SR-L3-04426; JSC-18884		

4. Title and Subtitle	5. Report Date
Argentina Spectral-Agronomic Multitemporal Data Set	June 1983
	6. Performing Organization Code 26-43

7. Author(s)	8. Performing Organization Report No.
G. D. Badhwar, D. Helmer, C. Kinzler, and M. A. Tompkins	LEMSCO- 19539
	10. Work Unit No. 008-71-315

9. Performing Organization Name and Address	11. Contract or Grant No.
Lockheed Engineering & Management Services,Co., Inc. 1830 NASA Road 1 Houston, Texas 77058	NAS9-15800
	13. Type of Report and Period Covered

12. Sponsoring Agency Name and Address	14. Sponsoring Agency Code
National Aeronautics and Space Administration Lyndon B. Johnson Space Center Houston, Texas 77058	SC3

15. Supplementary Notes

16. Abstract

A unique multitemporal Landsat spectral data set has been created. The data set is over five 5 nm-by-6 nm areas over Argentina and contains by field, the spectral data, vegetation type and cloud cover information.

17. Key Words (Suggested by Author(s))	18. Distribution Statement
Ground Truth Landsat Spectral Data Special Fields	

19. Security Classif. (of this report)	20. Security Classif. (of this page)	21. No. of Pages	22. Price*
Unclassified	Unclassified		

*For sale by the National Technical Information Service, Springfield, Virginia 22161

ARGENTINA SPECTRAL-AGRONOMIC MULTITEMPORAL DATA SET

G. D. Badhwar
NASA Johnson Space Center
Houston, Texas

and

D. Helmer, C. Kinzler, and M. A. Tompkins
Lockheed Engineering and Management Services Company, Inc.
Houston, Texas

June 1983

INTRODUCTION

In 1981, a group from the Environmental Research Institute of Michigan (ERIM) and the University of California at Berkeley (UCB) visited 14 sites in Argentina to gather a broad spectrum of agronomic data in order to gain an understanding and evaluate the application of the U.S. based remote sensing technology. The task of collecting the data was successful, though the quality of ground data was not as high as one is used to under the LACIE and AgRISTARS programs. This is by no means any reflection of the ERIM and UCB team effort, but was caused by difficulties involved in carrying out this task. The results of the ERIM and UCB are summarized in a set of excellent reports (Hicks et al., 1981; Hicks, 1982; and Ramirez and Reed, 1982). Since the visiting group had only one Landsat acquisition imagery, instead of aircraft photographs, to work with, it is not surprising that the ground truth accuracy was not high. With the availability of a multitemporal data set and crop calendar information, a serious hard look was undertaken to remedy some of the deficiencies of the earlier work for five selected segments that contained corn and soybean fields. The imagery were carefully screened to note cloud/haze condition over each field. In addition, polygon coordinate of a field of one class containing only pure (interior) pixels were obtained. Using the software (Helmer et al., 1983) developed earlier, spectral reflectance values of each field were extracted.

This report describes the details procedure followed to obtain high quality spectral data over selected fields in Argentina. This is a unique spectral-ground truth data base.

The extracted spectral data are given in tables. The symbols are almost self explanatory. FLD stands for field number; CROP is crop type, ACQNO is year and day of year; LNDSAT is Landsat number, SUNANG is the solar elevation angle in degrees, MEAN i and STND i, i-1,4 are

mean and standard deviation in each of the four Landsat bands and REFDT is reference day starting from day of year 101 as day 1. The Landsat data was processed through the LIVES-MDP data processor. In order to convert it to the more familiar LACIE processor, the following calibration, taken from Wacker (1981) should be applied.

$$\text{LACIE (counts)} = a\ (\text{LIVES counts}) + b$$

where for

	Landsat-2		Landsat-3	
	a	b	a	b
Ch1	1.265	-1.082	1.145	2.038
Ch2	1.130	-2.115	1.053	0.734
Ch3	1.098	-2.890	1.117	1.378
Ch4	0.474	0.500	0.492	-0.461

The LACIE counts can now be converted directly to Kauth-Thomas transformation, etc.

Steps followed in reviewing the Agrentina ground truth effort and updating the field boundaries as interpreted on the Landsat image acquisitions are as follows:

1. Check pixel registration between Landsat acquisitions for each segment.

2. Chose a base acquisition to use for defining fields.
   - good field contrast
   - close to ground truth date if possible

3. Studied the imagery and the Landsat full frame image that was utilized in the ground truth inventory.

4. Placed overlays for field definition on both images.

5. Outline the fields as the analyst interpreted them to be. Notes are made on the full frame overlay. Fields were numbered on the segment overlay.

6. Pixel/line coordinates are determined and listed. If the field boundaries or crop was questionable, it was usually omitted.

7. A listing of field spectral signatures by acquisition was compiled with pertinent comments. The Argentina crop calendars were consulted.

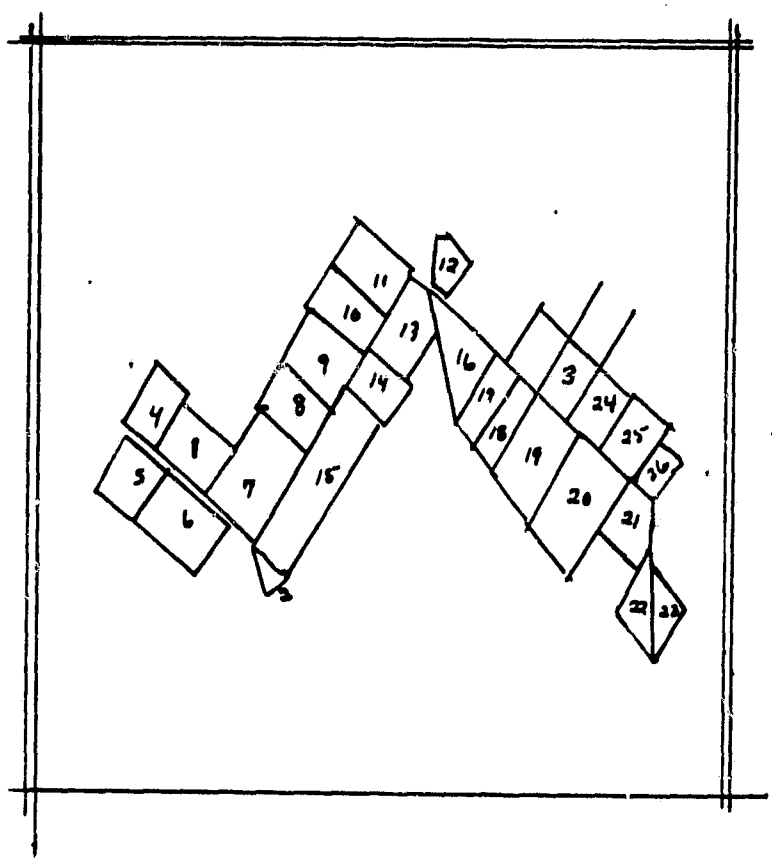
8. A list of the cloud screening and registration codes was prepared by field/acquisition for each segment.

TABLE 1. CROP CODES USED IN ARGENTINA GROUND TRUTH DATA PRODUCTS

Crop	
ALF	Alfalfa
CR	Corn
OA	Oats
PE	Peanuts
SY	Soybeans
SR	Sorghum
SUN	Sunflower
WW	Winter Wheat
	Grasses
	Other Hay
PAS	Pasture
	Trees > 8 pixels
	Water > 5 acres
	Non-Agricultural
F	Idle Land/Fallow
	Previous Year Residue/Stubble
	Mixed Crop
	Problem Field
	Non-Inventoried
BS	Bare Soil
	Internal Drainage, Drainage Way
	Chicory
	Natural Vegetation (Non-Ag)
	Corn or Sorghum
AH	Alfalfa/Hay
WWR	Winter Wheat Residue

TABLE II. CLOUD COVER CODE

Code	Description
0	good data
1	haze, fields still visible
2	misregistered
3	heavy heze
4	bad data
5	bad clouds - shadows



Segment 0520 Coronel Saurez, Argentina

SEGMENT NO. 0520 - CORONEL SUAREZ, ARGENTINA

Field	Pixel	Line
1 SY	38	87
	43	79
	54	87
	49	94
2 SY	65	111
	71	115
	67	118
3 BS	151	64
	159	70
	151	80
	144	74
4 BS	35	71
	42	76
	35	86
	27	82
5 WWR/SU	26	86
	36	93
	27	101
	20	97
6 WWR	38	93
	54	104
	45	113
	30	103
7 OA/WWR	65	80
	75	88
	62	104
	51	97
8 WWR	70	71
	82	79
	76	86
	64	78
9 BS/WW	78	60
	91	69
	84	75
	73	68
10 ?	84	50
	97	59
	92	64
	79	57
11 PAS	92	40
	102	49
	98	57
	86	48
12 PAS	114	42
	117	42
	122	47
	117	53
	114	51
13 OA	106	52
	110	54
	112	62
	106	70
	96	66
14 OA	95	67
	105	74
	100	80
	90	73
15 PAS	88	76
	97	81
	71	112
	64	108
16 PAS	114	55
	129	67
	120	80
17 OA	131	68
	136	71
	124	84
	122	80
18 OA	138	72
	141	75
	130	90
	126	86
19 PAS	143	77
	153	84
	140	101
	132	91
20 WW left to PAS	155	85
	166	94
	151	112
	142	103
21 PAS	169	95
	175	98
	175	108
	171	111
	161	104
22 OA/WW	175	110
	175	130
	167	122
23 PAS	177	114
	183	121
	177	130
24 CR	161	71
	168	76
	161	84
	154	80
25 PAS/WW	170	78
	179	82
	170	91
	163	86
26 PAS	177	86
	181	90
	176	96
	172	93

SEGMENT NO. 0520 - CORONEL SUAREZ, ARGENTINA

Field	80255	81042	81078 *	81114	
1 SY	BS/Yellow	Red	Yellow	BS	Two soybean fields
2 SY	Mauve	Red	Lt. Yellow	BS	
3 BS	BS	BS	BS	Red	
4 BS	Mauve	BS	Purple	BS	
5 WWR/SUN	BS	Yellow/Brown	Red/Orange	Yellow-Green	
6 WWR	BS	Brown	Red/Orange	BS	
7 OA/WWR	Mauve	BS	Red	Red	81042-Plowing
8 WWR	Mauve	Purple	Purple/Yellow	BS	
9 BS/WW	Mauve	BS	BS	Dark Purple	
10 ?	Pink	Purple	Purple/Yellow	BS	
11 PAS	BS	Purple	Yellow	BS	
12 PAS	BS	BS	Yellow/Mauve	BS	
13 OA	BS	BS	Pink	Red	80255 red in fiel
14 OA	Lt. Green	BS	BS	Red	
15 PAS	Yellow/BS	Pink/Brown/ Purple	Yellow	Yellow-Green	80255 Yellow/BS
16 PAS	Lt. Green	Green/Purple	Yellow/Mauve	BS	
17 OA	BS	BS	BS	Rose Pink	
18 OA	BS	BS	BS	Rose Pink	
19 PAS	Yellow/Pink	Red	Red	Pink	
20 WW left to PAS	BS	Purple/Green	Yellow	BS	
21 PAS	BS	BS	Lt. Purple	Red	
22 OA/WW	Red	BS	Red	Red	
23 PAS	Pink	Pink	Pink	Red	
24 CR	BS	Pink	Yellow	BS	
25 PAS/WW	BS Lt. Green	Purple	Brown	BS	
26 PAS	Pink/Yellow	Purple	Orange	Red	80255 Plowing field

*PFC colors different.

#520 - CORONEL SUAREZ, ARGENTINA

Cloud Cover Codes

Field Number	Acquisition†			
	80255	81042*	81078	81114**
1	0	0	0	0
2	0	0	0	0
3	0	1	0	0
4	0	0	0	0
5	0	1	0	0
6	0	0	0	0
7	0	0	0	0
8	0	0	0	0
9	0	0	0	0
10	0	0	0	0
11	0	0	0	0
12	0	0	0	0
13	0	0	0	0
14	0	0	0	0
15	0	0	0	0
16	0	0	0	0
17	0	0	0	0
18	0	0	0	0
19	0	0	0	0
20	0	0	0	0
21	0	0	0	0
22	0	0	0	0
23	0	0	0	0
24	0	1	0	0
25	0	1	0	0
26	0	1	0	0

* Minimum haze

**Haze NW corner of scene/no field

† See Table II for interpretation.

Segment 0520

S T A T I S T I C A L A N A L Y S I S S Y S T E M 15:52 FRIDAY, MAY 20, 1983 1

OBS	FLD	CROP	ACQNC	LNDSAT	SUNANG	MEAN1	STND1	MEAN2	STND2	MEAN3	STND3	MEAN4	STND4	REFDT
1	1	SY	80255	3	30	15.211	1.295	16.033	1.520	27.268	5.891	27.463	6.498	155
2	1	SY	81042	2	41	17.748	1.518	17.163	1.948	48.195	2.712	49.179	2.382	307
3	1	SY	81078	2	33	13.764	0.[illegible]	19.967	0.858	29.951	1.588	29.472	1.671	343
4	1	SY	81114	2	24	8.553	0.668	10.268	0.811	11.667	1.383	10.504	1.270	379
5	2	SY	80255	3	30	15.300	1.081	14.950	1.638	32.250	3.041	32.250	2.049	155
6	2	SY	81042	2	41	18.750	0.639	18.100	1.119	54.600	4.512	55.450	4.442	307
7	2	SY	81078	2	33	16.350	0.933	24.850	0.671	34.650	1.387	32.550	2.564	343
8	2	SY	81114	2	24	9.400	1.046	11.550	1.669	12.550	2.856	11.250	2.731	379
9	3	BS	80255	3	30	14.863	1.410	14.919	1.824	23.895	3.468	22.661	3.709	155
10	3	BS	81042	2	41	23.685	1.212	30.685	1.960	37.444	2.872	32.798	3.301	307
11	3	BS	81078	2	33	13.331	1.072	17.645	2.153	19.371	2.404	16.476	2.132	343
12	3	BS	81114	2	24	10.452	0.725	10.427	0.939	28.790	3.034	28.669	3.487	379
13	4	BS	80255	3	30	15.145	0.976	14.795	1.164	30.632	2.667	31.718	2.782	155
14	4	BS	81042	2	41	19.701	1.544	25.538	1.725	30.214	2.566	26.017	2.267	307
15	4	BS	81078	2	33	16.120	1.782	21.171	2.443	27.171	2.214	23.333	2.117	343
16	4	BS	81114	2	24	9.291	0.708	10.513	0.906	14.060	1.594	11.923	1.598	379
17	5	WWR/SU	80255	3	30	14.184	0.919	14.328	0.990	19.208	1.578	18.616	1.485	155
18	5	WWR/SU	81042	2	41	17.376	1.175	19.648	1.775	47.496	2.127	47.496	2.833	307
19	5	WWR/SU	81078	2	33	11.728	0.559	15.040	0.987	30.960	1.825	32.096	1.969	343
20	5	WWR/SU	81114	2	24	7.776	0.670	9.512	0.590	15.272	1.370	16.344	1.251	379
21	6	WWR	80255	3	30	14.171	1.093	14.667	1.119	18.033	1.847	17.077	1.636	155
22	6	WWR	81042	2	41	18.972	1.781	21.411	2.014	42.675	2.881	41.183	2.443	307
23	6	WWR	81078	2	33	12.232	0.766	15.614	1.262	29.854	1.677	30.240	1.660	343
24	6	WWR	81114	2	24	8.496	0.624	10.748	1.035	14.801	1.511	15.333	1.480	379
25	7	OA/WWR	80255	3	30	14.424	1.143	13.709	1.495	26.435	2.118	26.353	2.262	155
26	7	OA/WWR	81042	2	41	19.460	2.595	24.626	3.989	29.119	5.502	24.867	4.843	307
27	7	OA/WWR	81078	2	33	12.885	0.908	13.371	1.670	36.205	3.030	36.755	4.605	343
28	7	OA/WWR	81114	2	24	9.734	0.811	9.061	0.828	38.115	6.432	42.586	8.375	379
29	8	WWR	80255	3	30	14.370	1.470	13.594	1.928	27.543	2.324	27.630	3.152	155
30	8	WWR	81042	2	41	21.203	1.308	24.326	1.313	44.138	2.456	40.913	2.045	307
31	8	WWR	81078	2	33	15.978	1.097	22.732	1.380	32.493	1.653	30.522	1.384	343
32	8	WWR	81114	2	24	10.703	0.931	13.464	1.185	18.833	1.782	17.326	1.466	379
33	9	BS/WW	80255	3	30	14.074	0.997	12.867	0.945	27.296	2.839	27.859	1.913	155
34	9	BS/WW	81042	2	41	23.267	1.971	29.541	1.803	35.230	2.580	30.237	2.546	307
35	9	BS/WW	81078	2	33	13.881	0.970	18.696	1.289	20.044	1.916	17.274	1.646	343
36	9	BS/WW	81114	2	24	10.215	0.814	10.430	0.749	22.148	2.448	20.615	2.868	379
37	10	??????	80255	3	30	15.732	0.959	15.276	1.089	37.081	2.669	37.927	2.558	155
38	10	??????	81042	2	41	21.431	1.167	23.317	1.155	50.146	1.658	48.545	1.757	307
39	10	??????	81078	2	33	16.358	0.985	23.260	0.876	32.236	1.615	29.683	1.155	343
40	10	??????	81114	2	24	11.780	0.752	13.439	0.907	24.203	1.755	22.626	1.817	379
41	11	PAS	80255	3	30	15.921	1.000	16.835	1.294	26.827	2.106	25.899	1.935	155
42	11	PAS	81042	2	41	21.374	1.051	23.655	1.115	50.453	1.881	48.957	1.698	307
43	11	PAS	81078	2	33	14.806	1.154	21.892	1.220	32.475	1.874	31.353	1.769	343
44	11	PAS	81114	2	24	12.223	0.681	13.986	0.909	23.611	1.780	22.173	1.736	379
45	12	PAS	80255	3	30	16.349	0.997	17.767	1.744	29.372	2.507	28.837	2.716	155
46	12	PAS	81042	2	41	21.093	1.173	23.488	1.242	43.209	2.263	40.488	1.856	307
47	12	PAS	81078	2	33	14.791	1.407	19.651	1.660	27.930	2.404	26.744	2.321	343
48	12	PAS	81114	2	24	10.791	0.861	11.907	0.811	20.860	2.867	19.209	2.858	379
49	13	OA	80255	3	30	14.832	1.123	13.966	1.118	30.081	4.343	30.570	5.553	155
50	13	OA	81042	2	41	23.148	3.048	28.409	4.416	33.960	5.331	28.980	4.901	307
51	13	OA	81078	2	33	13.651	1.133	16.584	1.838	26.946	2.716	24.839	2.797	343
52	13	OA	81114	2	24	10.329	0.996	9.490	0.759	36.725	1.618	39.094	1.749	379
53	14	OA	80255	3	30	16.020	0.919	17.847	1.097	28.357	1.480	27.541	1.574	155
54	14	OA	81042	2	41	20.990	1.825	27.357	1.581	32.224	2.464	27.480	1.960	307
55	14	OA	81078	2	33	13.306	0.805	16.663	1.478	20.020	2.051	17.041	1.822	343
56	14	OA	81114	2	24	10.724	0.950	10.378	1.041	35.286	3.349	36.898	4.155	379

Segment 0520

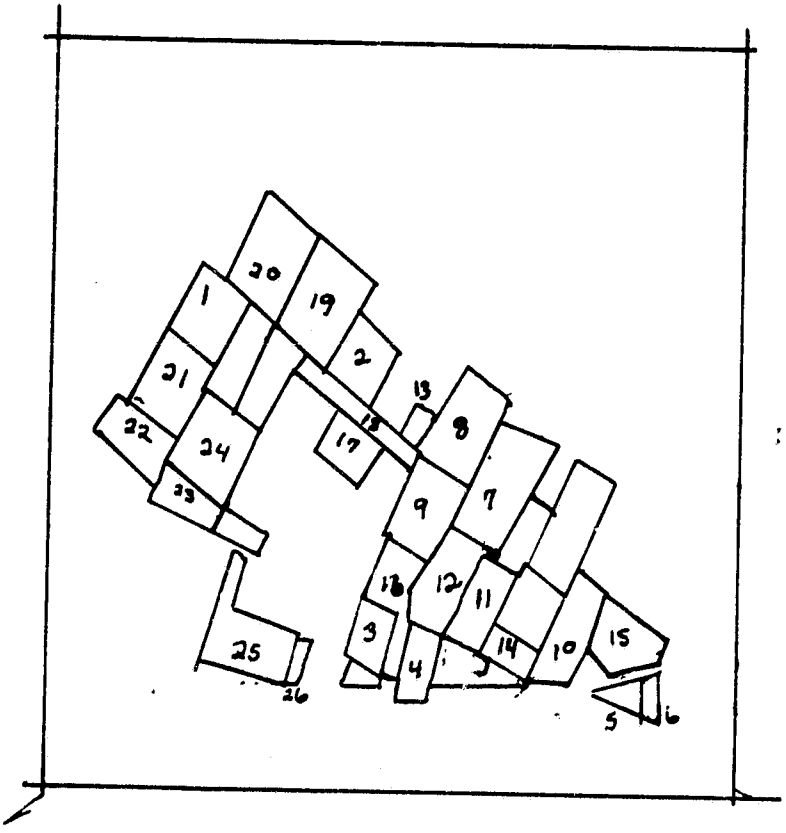
OBS	FLD	CROP	ACQNC	INDSAT	SUNANG	MEAN1	STND1	MEAN2	STND2	MEAN3	STND3	MEAN4	STND4	REEDT
57	15	PAS	80255	3	30	15.605	1.370	16.311	1.611	32.235	8.824	32.595	9.751	155
58	15	PAS	81042	2	41	20.316	1.249	22.011	1.581	46.643	3.341	44.546	3.923	307
59	15	PAS	81078	2	33	13.959	1.141	19.311	1.672	30.714	3.116	29.849	2.900	343
60	15	PAS	81114	2	24	9.903	0.821	11.011	0.893	22.019	3.072	22.161	3.453	379
61	16	PAS	80255	3	30	15.833	0.753	20.167	1.602	31.667	3.386	32.500	1.871	155
62	16	PAS	81042	2	41	19.333	1.366	22.000	1.673	43.333	2.338	41.500	2.681	307
63	16	PAS	81078	2	33	13.667	1.033	18.000	1.265	24.500	3.619	23.667	3.141	343
64	16	PAS	81114	2	24	8.667	0.516	10.000	0.632	10.000	2.191	8.667	1.862	379
65	17	OA	80255	3	30	14.953	1.290	14.776	1.936	23.894	2.105	23.141	1.665	155
66	17	OA	81042	2	41	21.518	1.259	25.553	1.358	38.976	2.024	35.753	1.558	307
67	17	OA	81078	2	33	13.600	1.242	18.400	1.814	19.482	2.276	16.400	2.048	343
68	17	OA	81114	2	24	10.382	0.862	9.459	0.867	27.353	2.746	27.094	3.054	379
69	18	OA	80255	3	30	14.847	1.164	14.260	1.551	24.365	2.847	23.781	3.498	155
70	18	OA	81042	2	41	21.792	0.951	25.229	1.174	41.115	2.583	37.813	2.163	307
71	18	OA	81078	2	33	13.656	1.074	17.938	1.691	20.167	2.805	17.125	2.719	343
72	18	OA	81114	2	24	10.010	0.877	9.438	1.024	29.073	3.593	28.719	4.077	379
73	19	PAS	80255	3	30	16.196	1.160	16.176	1.746	38.763	2.368	41.249	2.261	155
74	19	PAS	81042	2	41	19.996	1.136	21.167	1.105	50.580	3.105	51.751	4.077	307
75	19	PAS	81078	2	33	14.290	1.005	17.608	1.412	34.890	2.161	36.204	3.019	343
76	19	PAS	81114	2	24	10.029	0.807	10.229	0.739	27.853	2.067	29.576	3.362	379
77	20	SW	80255	3	30	14.443	1.339	14.089	1.883	23.427	2.502	22.678	2.287	155
78	20	SW	81042	2	41	21.462	1.212	24.197	1.039	44.592	2.378	41.424	2.016	307
79	20	SW	81078	2	33	14.322	0.960	20.162	1.205	30.296	1.315	29.013	1.333	343
80	20	SW	81114	2	24	9.739	0.808	11.818	0.891	17.599	1.808	16.841	1.512	379
81	21	PAS	80255	3	30	16.254	0.950	17.607	1.175	27.762	1.706	27.320	1.899	155
82	21	PAS	81042	2	41	22.451	1.320	27.270	1.782	38.689	3.141	35.270	2.968	307
83	21	PAS	81078	2	33	15.426	1.226	20.770	1.715	28.475	2.133	26.000	1.553	343
84	21	PAS	81114	2	24	10.254	0.767	10.607	0.914	26.246	3.002	25.451	3.331	379
85	22	OA/SW	80255	3	30	14.000	0.378	10.933	2.187	34.267	3.712	36.133	3.796	155
86	22	OA/SW	81042	2	41	23.000	1.363	28.200	1.146	37.267	2.344	32.067	2.658	307
87	22	OA/SW	81078	2	33	13.867	1.457	14.867	2.800	47.000	4.690	48.467	6.323	343
88	22	CA/SW	81114	2	24	9.267	0.594	9.533	0.990	30.733	3.127	31.133	4.549	379
89	23	PAS	80255	3	30	15.286	0.951	14.429	0.535	38.429	1.618	39.857	0.378	155
90	23	PAS	81042	2	41	20.286	0.488	21.571	1.134	53.286	2.289	54.571	1.718	307
91	23	PAS	81078	2	33	15.000	0.577	19.714	1.380	36.714	1.976	38.143	2.340	343
92	23	PAS	81114	2	24	9.143	0.378	8.143	0.690	29.714	1.380	32.429	1.813	379
93	24	CR	80255	3	30	16.319	1.229	16.862	1.411	30.734	1.641	30.723	1.307	155
94	24	CR	81042	2	41	23.819	0.994	24.394	1.147	60.947	2.938	59.628	2.480	307
95	24	CR	81078	2	33	16.096	1.038	24.660	1.043	35.436	1.714	33.798	1.726	343
96	24	CR	81114	2	24	10.638	0.774	13.309	0.719	16.362	1.480	14.383	1.415	379
97	25	PAS/SW	80255	3	30	16.730	2.898	19.252	5.466	24.468	6.469	22.955	6.082	155
98	25	PAS/SW	81042	2	41	22.964	1.883	25.279	2.591	50.243	4.656	48.261	4.676	307
99	25	PAS/SW	81078	2	33	14.901	2.049	20.189	3.164	31.910	3.571	30.685	3.588	343
100	25	PAS/SW	81114	2	24	10.595	1.012	12.315	1.000	22.135	3.538	21.288	3.728	379
101	26	PAS	80255	3	30	15.766	1.108	16.319	1.682	38.234	2.736	39.660	3.318	155
102	26	PAS	81042	2	41	23.255	1.206	24.617	1.134	51.426	2.019	50.574	2.474	307
103	26	PAS	81078	2	33	14.872	1.172	20.872	1.777	33.447	1.558	33.064	1.660	343
104	26	PAS	81114	2	24	9.426	0.773	9.702	0.689	23.809	1.555	25.064	2.996	379

SEGMENT NO. 0682 - Salto, ARGENTINA

Field	Pixel	Line
1 CR	43	50
	54	57
	47	69
	35	62
2 CR	88	61
	97	67
	91	77
	81	70
3 SY	90	121
	98	123
	95	134
	87	131
4 SY	104	126
	111	128
	108	141
	101	141
5 CR	156	140
	168	138
	168	146
6 SR	170	137
	174	136
	174	146
	170	146
7 CR	129	81
(seed)	143	86
	128	107
	118	103
8 SY	119	71
	130	78
	120	93
	107	87
9 SY	106	91
	118	96
	108	110
	98	104
10 PAS	152	114
	158	118
	150	136
	139	136
11 AH	125	111
	131	115
	124	129
	114	127
12 PAS	116	103
	123	108
	113	126
	105	123
13 CR	105	80
	108	81
	104	86
	101	84
15 PAS	160	120
	175	127
	174	131
	162	134
	157	129
16 AH	98	108
	107	112
	104	118
	103	123
	100	134
	98	133
	100	122
	91	118
17 CR	82	80
	94	88
	88	94
	78	88
18 SUNFL	73	68
	103	88
	102	91
	71	71
19 PAS on ALF	77	43
	90	52
	79	69
	67	61
20 CR	62	35
	74	42
	64	59
	52	51
21 PAS	34	64
	45	71
	37	84
	24	78
22 SY	20	79
	35	87
	31	93
	16	85
23 SY	35	92
	50	101
	48	104
	31	98
24 CR	45	77
	59	84
	50	98
	37	90
25 PAS	54	111
	56	112
	54	122
	70	128
	67	137
	45	133
26 CR	73	129
	75	129
	72	136
	70	136

SEGMENT NO. 0682 - SALTO, ARGENTINA

Field Number	80254	81005	81059	81095	Comments
1 CR	BS	Red	Bright Green	Lt. Green	
2 CR	BS	Dk. Pink	Bright Green	BS	
3 SY	Mauve	BS	Red-Pink	Red	
4 SY	Mauve	BS	Red-Pink	Red	
5 CR	BS	Red	BS	BS	boundary questionable
6 SR	BS	Red	BS	BS	
7 CR	BS	Red	BS	BS	
8 SY	Deep pink mauve	BS	Red	Red	
9 SY	Red	BS	Pink/Purple	Red	
10 PAS	Pink	Red	Mauve	Pink/Red	
11 AH	Pink	Red	Purple	Pink/Red	G.T. show E-W fields imagery N-S; crop type confusion
12 PAS	Pink	Purple	Mauve	Pink/Red	
13 CR	BS	Red	BS	BS	
15 PAS	Pink	Mauve	Pink	Pink/Red	
16 AH	Pink	Yellow/brown mauve	Mauve	Pink/Red	
17 CR	BS	Mauve	Yellow/Green	BS	
18 SUNFL	BS	Mauve	Mauve	Purple	Field not as G.T. shows
19 PAS/AL	Pink/Yellow	Yellow/brown	Bright Pink	Lt. Purple	
20 CR	Pink/Yellow	Red	Purple/Green	BS	
21 PAS	Pink	Brownish	Pink/Yellow	Pink	
22 SY	BS	Purple	Bright Pink	Red	
23 SY	Mauve	BS	Pink	Red	
24 CR	BS	Red	BS	BS	
25 PAS	Pink	Brown/Pink	Purple	Mauve	
26 CR	BS	Red	BS	BS	



Segment 0682 Salto, Argentina

SEGMENT NO. 0682 - SALTO, ARGENTINA

(Cloud Cover Codes)

(81005 Base Acquisition)

Field Number	Acquisition 80254	81005	81059	81095*
1	0	0	0	0
2	0	0	0	0
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	0	0	0	0
7	0	0	0	0
8	0	0	0	0
9	0	0	0	0
10	0	0	0	0
11	0	0	0	0
12	0	0	0	0
13	0	0	0	0
14	0	0	0	0
15	0	0	0	0
16	0	0	0	0
17	0	0	0	0
18	0	0	0	0
19	0	0	0	0
20	0	0	0	0
21	0	0	0	0
22	0	0	0	0
23	0	0	0	0
24	0	0	0	0
25	0	0	0	0
26	0	0	0	0

*Appears to be OK PFC images are larger than others

Segment 0682

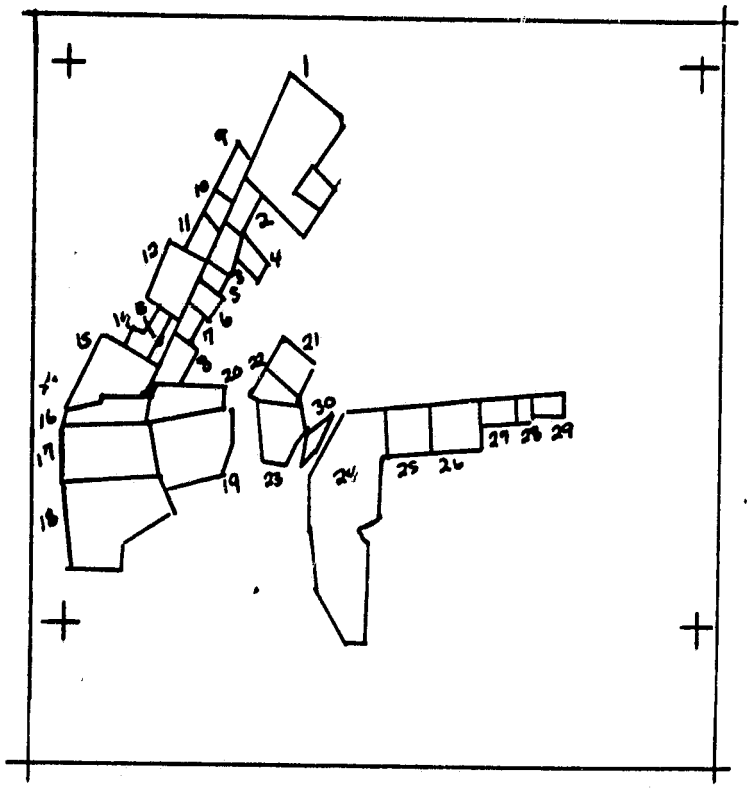
S T A T I S T I C A I A N A L Y S I S S Y S T E M 15:55 FRIDAY, MAY 20, 1983 1

OBS	FLD	CROP	ACQNO	LNESAT	SUNANG	MEAN1	STND1	MEAN2	STND2	MEAN3	STND3	MEAN4	STND4	REECT
1	1	CR	80254	3	31	14.021	1.180	14.415	1.481	16.226	2.865	17.523	3.140	154
2	1	CR	81005	2	48	17.400	1.329	14.887	1.049	60.738	2.775	67.821	2.442	270
3	1	CR	81059	2	39	21.056	1.293	23.826	1.316	42.559	3.593	41.164	3.460	324
4	1	CR	81095	2	31	14.959	1.009	19.933	2.010	29.518	1.783	25.651	2.375	360
5	2	CR	80254	3	31	14.642	1.090	14.934	1.164	15.555	1.890	16.321	2.392	154
6	2	CR	81005	2	48	19.080	1.641	17.401	1.166	62.723	3.925	67.664	3.685	270
7	2	CR	81059	2	39	20.467	1.092	23.401	1.221	40.029	1.940	37.365	1.798	324
8	2	CR	81095	2	31	11.715	0.757	13.562	1.042	19.562	2.820	16.964	2.640	360
9	3	SY	80254	3	31	15.084	0.846	13.063	0.987	27.747	2.401	31.000	2.658	154
10	3	SY	81005	2	48	20.505	1.856	26.316	1.909	30.979	3.275	26.768	3.654	270
11	3	SY	81059	2	39	20.474	1.175	19.695	1.082	58.947	2.811	58.832	3.836	324
12	3	SY	81095	2	31	10.853	0.812	9.453	0.665	49.905	2.042	55.411	2.469	360
13	4	SY	80254	3	31	15.130	0.948	14.222	1.356	26.509	3.624	29.102	3.106	154
14	4	SY	81005	2	48	21.444	2.075	25.861	3.074	38.833	4.591	35.509	5.109	270
15	4	SY	81059	2	39	20.343	0.959	19.435	1.170	57.824	4.153	58.306	5.189	324
16	4	SY	81095	2	31	11.528	0.729	10.546	0.990	44.120	4.087	46.787	4.838	360
17	5	CR	80254	3	31	14.608	0.723	15.039	1.414	17.059	3.546	18.392	4.526	154
18	5	CR	81005	2	48	15.941	1.593	13.627	1.113	57.843	2.101	67.235	2.259	270
19	5	CR	81059	2	39	19.882	1.089	21.098	0.900	40.157	3.101	39.667	3.090	324
20	5	CR	81095	2	31	10.490	0.703	11.314	0.761	21.058	1.666	19.392	1.736	360
21	6	SR	80254	3	31	14.490	1.027	15.196	0.960	15.980	1.975	16.980	1.975	154
22	6	SR	81005	2	48	16.922	1.765	15.314	1.667	56.510	8.056	63.353	11.382	270
23	6	SR	81059	2	39	19.882	0.952	21.275	1.060	39.882	4.028	39.255	5.627	324
24	6	SR	81095	2	31	11.078	0.845	11.510	0.784	24.353	4.353	24.059	5.743	360
25	7	CR	80254	3	31	14.717	0.957	15.559	1.022	16.314	1.690	17.739	1.901	154
26	7	CR	81005	2	48	17.686	1.422	15.416	1.394	57.298	3.572	63.124	5.183	270
27	7	CR	81059	2	39	19.525	1.051	20.540	1.144	42.891	2.793	42.037	2.847	324
28	7	CR	81095	2	31	10.947	0.790	11.460	0.793	23.742	2.264	22.149	2.327	360
29	8	SY	80254	3	31	15.076	1.010	13.129	1.487	28.723	3.715	32.568	4.674	154
30	8	SY	81005	2	48	21.080	1.686	26.008	2.348	35.121	4.873	31.686	6.644	270
31	8	SY	81059	2	39	19.102	1.161	17.848	1.282	63.261	10.580	65.652	13.116	324
32	8	SY	81095	2	31	11.364	0.839	10.318	1.052	45.083	8.118	48.208	9.865	360
33	9	SY	80254	3	31	15.495	1.004	10.104	1.433	39.119	2.598	49.876	3.419	154
34	9	SY	81005	2	48	22.366	2.604	29.059	3.553	36.094	5.298	34.941	5.579	270
35	9	SY	81059	2	39	20.277	1.009	18.901	1.172	53.980	4.448	51.941	4.904	324
36	9	SY	81095	2	31	11.337	0.820	10.015	1.295	42.673	4.744	44.931	6.042	360
37	10	PAS	80254	3	31	16.422	1.186	15.814	1.087	36.487	2.895	43.276	3.395	154
38	10	PAS	81005	2	48	18.879	1.680	17.563	1.468	66.548	3.913	72.970	4.763	270
39	10	PAS	81059	2	39	20.799	1.206	20.698	0.926	54.528	3.208	55.618	3.561	324
40	10	PAS	81095	2	31	12.739	0.683	13.286	0.781	35.191	2.126	35.025	2.589	360
41	11	AH	80254	3	31	15.569	1.018	13.196	1.318	42.301	2.291	50.255	2.217	154
42	11	AH	81005	2	48	17.824	1.461	14.895	0.828	70.647	2.939	77.588	3.109	270
43	11	AH	81059	2	39	20.131	1.104	20.242	0.874	46.516	3.015	43.706	3.128	324
44	11	AH	81095	2	31	12.386	0.566	11.131	0.784	44.641	4.916	45.725	5.505	360
45	12	PAS	80254	3	31	15.351	1.062	13.463	1.603	36.654	4.144	42.995	5.223	154
46	12	PAS	81005	2	48	20.154	1.662	21.181	1.638	52.372	4.764	52.894	5.479	270
47	12	PAS	81059	2	39	20.585	1.363	19.580	1.165	55.819	3.172	56.096	4.200	324
48	12	PAS	81095	2	31	12.378	0.577	11.649	0.978	38.548	4.018	39.755	4.488	360
49	13	CR	80254	3	31	14.130	1.140	13.957	0.706	16.435	4.305	17.087	4.155	154
50	13	CR	81005	2	48	16.783	1.476	15.913	1.240	54.435	3.435	61.348	3.433	270
51	13	CR	81059	2	39	18.739	1.137	20.565	0.992	40.565	2.997	38.783	2.575	324
52	13	CR	81095	2	31	10.652	0.885	12.435	0.728	19.870	2.007	17.652	2.604	360
53	15	PAS	80254	3	31	16.291	0.920	16.051	1.407	33.667	2.965	39.034	3.272	154
54	15	PAS	81005	2	48	19.598	1.457	19.248	1.383	60.128	2.376	62.590	2.346	270
55	15	PAS	81059	2	39	21.744	1.260	20.846	0.952	63.983	2.319	65.496	1.659	324
56	15	PAS	81095	2	31	12.051	0.628	12.479	0.690	35.701	1.940	36.513	1.705	360

Segment 0682

S T A T I S T I C A L A N A L Y S I S S Y S T E M 15:55 FRIDAY, MAY 20, 1983 2

OBS	FLD	CROP	ACQNO	INDSAT	SUNANG	MEAN1	STND1	MEAN2	STND2	MEAN3	STND3	MEAN4	STND4	REEDT
57	16	AH	80254	3	31	15.758	0.938	14.0o1	0.956	38.172	2.171	44.778	2.418	154
58	16	AH	81005	2	48	19.677	1.490	19.121	1.704	60.768	3.647	63.434	4.449	270
59	16	AH	81059	2	39	20.081	1.066	20.202	1.220	48.818	3.911	48.374	4.744	324
60	16	AH	81095	2	31	12.364	0.504	11.939	0.697	37.293	3.618	37.222	3.587	360
61	17	CR	80254	3	31	14.983	0.913	15.909	1.245	16.818	1.285	18.273	2.473	154
62	17	CR	81005	2	48	18.017	1.284	15.884	0.915	59.397	2.737	64.603	3.496	270
63	17	CR	81059	2	39	18.430	0.874	19.413	1.481	44.587	3.378	44.182	3.440	324
64	17	CR	81095	2	31	10.868	0.741	11.843	0.875	21.835	2.650	20.256	2.525	360
65	18	SUNFL	80254	3	31	15.008	1.132	15.584	1.079	17.720	2.614	19.240	2.674	154
66	18	SUNFL	81005	2	48	19.464	1.721	18.736	1.258	63.400	4.172	64.976	3.745	270
67	18	SUNFL	81059	2	39	19.364	1.061	18.696	1.297	52.120	3.133	50.816	3.086	324
68	18	SUNFL	81095	2	31	13.520	0.848	13.216	0.838	28.928	2.954	24.752	2.994	360
69	19	PASALF	80254	3	31	16.565	1.024	16.856	1.439	38.326	2.244	45.339	2.352	154
70	19	PASALF	81005	2	48	17.383	1.457	18.265	1.223	55.987	3.684	62.099	3.768	270
71	19	PASALF	81059	2	39	21.530	1.430	20.128	1.866	63.716	4.413	64.246	5.289	324
72	19	PASALF	81095	2	31	14.387	1.193	16.048	2.543	38.770	4.246	38.668	5.300	360
73	20	CR	80254	3	31	17.066	1.078	16.716	1.252	37.417	2.517	43.468	3.917	154
74	20	CR	81005	2	48	17.619	1.426	14.500	1.177	63.363	3.360	70.313	3.571	270
75	20	CR	81059	2	39	20.320	1.076	20.604	0.936	48.576	1.520	48.432	1.795	324
76	20	CR	81095	2	31	11.453	0.615	13.737	0.841	18.050	2.152	15.417	2.379	360
77	21	PAS	80254	3	31	16.201	0.984	15.103	0.999	40.098	2.042	46.549	2.475	154
78	21	PAS	81005	2	48	18.589	1.829	18.933	1.929	55.835	2.474	60.161	4.144	270
79	21	PAS	81059	2	39	21.567	1.215	21.054	1.023	58.996	2.734	60.643	3.555	324
80	21	PAS	81095	2	31	12.701	0.743	12.665	0.689	39.143	3.316	40.232	3.459	360
81	22	SY	80254	3	31	14.992	1.364	14.855	1.518	20.274	5.784	21.992	6.021	154
82	22	SY	81005	2	48	18.532	1.684	18.129	1.593	48.903	4.858	47.806	6.300	270
83	22	SY	81059	2	39	20.532	0.999	19.629	1.040	71.210	3.546	77.177	3.906	324
84	22	SY	81095	2	31	11.597	0.732	10.194	0.833	49.331	4.524	53.347	4.727	360
85	23	SY	80254	3	31	14.653	1.095	12.388	1.071	28.929	2.330	33.561	2.957	154
86	23	SY	81005	2	48	19.969	2.007	25.878	1.890	29.816	3.212	26.908	3.512	270
87	23	SY	81059	2	39	21.071	1.270	19.296	1.096	67.745	3.362	68.816	3.781	324
88	23	SY	81095	2	31	11.776	0.528	10.163	0.604	49.255	2.664	52.878	3.365	360
89	24	CR	80254	3	31	14.921	0.929	15.702	1.232	17.571	1.853	18.845	2.119	154
90	24	CR	81005	2	48	16.579	1.561	13.984	1.284	61.353	2.837	70.714	3.679	270
91	24	CR	81059	2	39	20.575	1.114	21.274	1.006	46.167	3.053	45.329	3.466	324
92	24	CR	81095	2	31	10.754	0.815	11.726	0.990	18.198	2.491	16.179	2.791	360
93	25	PAS	80254	3	31	15.847	1.196	14.055	1.213	42.464	2.924	50.106	3.891	154
94	25	PAS	81005	2	48	19.962	2.115	20.762	2.780	56.791	6.014	58.562	6.450	270
95	25	PAS	81059	2	39	19.243	1.193	19.387	1.229	45.966	3.707	45.604	4.794	324
96	25	PAS	81095	2	31	12.065	0.680	12.979	0.850	30.281	2.560	29.438	3.326	360
97	26	CR	80254	3	31	14.444	1.199	14.444	1.097	14.611	3.127	15.556	3.634	154
98	26	CR	81005	2	48	17.833	1.978	15.778	1.437	63.167	3.185	69.722	3.786	270
99	26	CR	81059	2	39	20.167	0.924	22.667	1.414	37.722	1.487	36.889	0.963	324
100	26	CR	81095	2	31	11.389	0.608	12.667	0.594	17.778	2.130	16.556	1.854	360



Segment 0681 Junin, Argentina

SEGMFNT NO. 0681 - JUNIN, ARGENTINA

Field	Pixel	Line
1 CR	73	13
	88	22
	75	38
	83	43
	77	47
	61	35
2 CR	61	36
	65	39
	60	47
	56	44
3 SY	55	46
	59	48
	56	55
	51	53
4 CR	60	48
	67	53
	65	56
	59	52
5 OA	50	54
	56	57
	55	59
	49	57
6 SY	48	58
	54	61
	51	66
	46	62
7 PAS	46	63
	49	66
	46	69
	42	68
8 CR	42	70
	47	71
	43	78
	38	78
9 BS	58	28
	62	31
	57	39
	53	37
10 PAS	52	38
	57	41
	53	45
	49	42

Field	Pixel	Line
11 SR	48	43
	53	47
	49	52
	44	50
12 PAS	39	49
	48	53
	42	64
	33	61
13 SY	40	65
	42	66
	37	75
	35	74
14 CR	36	64
	39	65
	34	73
	28	71
	29	68
	33	69
15 PAS	20	70
	25	70
	36	76
	34	81
	20	82
	20	83
	11	84
16 TREES	10	86
	21	85
	22	84
	32	84
	32	87
	10	87
17 SY	10	89
	34	89
	36	98
	10	99
18 not sure what it is.		
19 PAS	35	88
	58	86
	55	98
	40	100
20 SY	36	80
	55	80
	54	84
	34	85

Field	Pixel	Line
21 CR	71	70
	80	75
	77	81
	68	75
22 PAS	67	76
	76	83
	64	81
	64	80
23 PAS	65	83
	77	84
	79	87
	72	97
	68	97
24 PAS	88	85
	100	84
	98	108
	94	110
	94	112
	96	134
	81	122
	80	100
25 SY	101	84
	113	83
	113	93
	101	94
26 CR	115	82
	127	82
	128	93
	115	93
27 SY	129	82
	138	82
	138	86
	129	87
28 PAS	139	82
	143	82
	143	86
	139	87
29 CR	144	81
	152	81
	152	85
	144	85
30 TREES	79	89
(difficult	86	85
to detect	82	92
boundaries)	77	95

SEGMENT NO. 0681 - JUNIN, ARGENTINA

Field Number	80129	80219	80255	80273	81005	81059	81060	81078	Comments
1 CR	Red-Grn	BS	BS	BS	Red	BS	Clouds	BS	80120 is 2 fields
2 CR	BS	BS	BS	BS	Red	BS	Shadows	BS	
3 SY	Pink-Grn	BS	BS	Mauve	BS	Pink	Haze	Red	80129 is 2 fields
4 CR	BS	BS	BS	BS	Red	BS		BS	
5 OA	BS	BS	BS	Dk Mauve	BS	Lt. Grn		BS	
6 SY	BS	BS	BS	Dk Mauve	BS	Mauve		Red	
7 PAS	BS	BS	BS	BS	Purple	Red		Red-Grn	81078 is 2 fields
8 CR	Yell/Grn	BS	BS	BS	Red	Grn/Brn		BS	
9 BS	BS	BS	BS	BS	Red	Purp/Grn		BS	
10 PAS	Pink	Pink	Pink	Pink/Yell	Pink	Mauve		Mauve	
11 SR	Rose	Pink	Pink	Mauve	Purple	Mauve		Mauve	
12 PAS	Pink/Yell	Yell/Grn	Yellow	Yellow	Red	Mauve		BS, Grn	
13 SY	BS	BS	Red	Red/Grn	Purple	Red		Red	
14 CR	Org/Grn	BS	BS	BS	Red	Grn, Mauve		BS	80129 is 2 fields
15 PAS	Yell/Pink	Yellow	Yellow	Yellow	Pink	Yellow		Lt Purp	
16 TREES	Multi	Multi	Multi	Multi	Dark	Multi		Multi	
17 SY	Pink/Grn	BS	Pink	Pink/Grn	Red	Red		Red	
19 PAS	Yell/Pink	Yellow	Yellow	Yellow	Pink	Yell/Purp		Lt Purp	
20 SY	Lt. Grn	BS	Purp/Grn	Purple	BS	Dk Pink		Dk Red	
21 CR	Lt. Grn	BS	BS	BS	Red	BS		BS	
22 PAS	Purple	BS	Mauve	Red	Lt Purple	BS		BS	
23 PAS	Pink-Purp	Yellow	Yell/Pink	Yell/Pink	Pink	Mauve		Purp/Grn	
24 PAS	Yell-Purp	Yellow	Yellow	Yell/Pink	Pink	Grn, Purp		Lt Purp	81059 - part look harvested
25 SY	BS	BS	Red	Red/Shad	Lt. Grn	Red		Red	
26 CR	BS	BS	BS	BS	Red	BS		Brt Grn	
27 SY	Lt. Grn	BS	BS	BS	Red	BS		BS	
28 PAS	Pink	Pink	Pink	Yell/Pink	Red	BS		Lt Purp	
29 CR	BS	BS	Mauve	Shadow	Mauve	Red		Red	
30 TREES	Dark	Dark	Dark	Dark	Red	Dk Mauve		Dark	

SEGMENT NO. 0681 - JUNIN, ARGENTINA
(Cloud Cover Codes)

Field Number	Acquisition 80129	80219	80255	80273*	81005	81059	81060	81078
1	0	0	0	5	0	0	5	0
2	0	0	0	2	0	0	5	0
3	0	0	0	5	0	0	5	0
4	0	0	0	2	0	0	5	0
5	0	0	0	2	0	0	5	0
6	0	0	0	2	0	0	5	0
7	0	0	0	2	0	0	5	0
8	0	0	0	2	0	0	5	0
9	0	0	0	5	0	0	5	0
10	0	0	0	5	0	0	5	0
11	0	0	0	5	0	0	5	0
12	0	0	0	2	0	0	5	0
13	0	0	0	2	0	0	5	0
14	0	0	0	2	0	0	5	0
15	0	0	0	2	0	0	5	0
16	0	0	0	2	0	0	5	0
17	0	0	0	2	0	0	5	0
19	0	0	0	5	0	0	5	0
20	0	0	0	2	0	0	5	0
21	0	0	0	2	0	0	5	0
22	0	0	0	2	0	0	5	0
23	0	0	0	5	0	0	5	0
24	0	0	0	2	0	0	1	0
25	0	0	0	5	0	0	1	0
26	0	0	0	2	0	0	1	0
27	0	0	0	2	0	0	1	0
28	0	0	0	2	0	0	1	0
29	0	0	0	5	0	0	1	0
30	0	0	0	2	0	0	5	0

*Scattered small clouds/slightly misregistered.

Segment 0681 S T A T I S T I C A L A N A L Y S I S S Y S T E M 15:26 FRIDAY, MAY 20, 1983 1

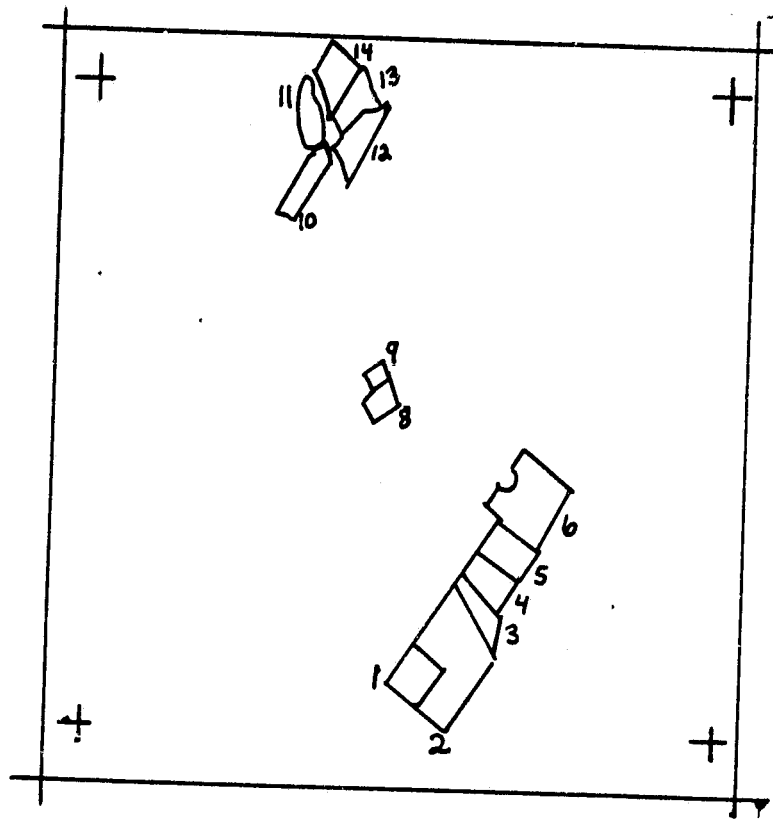
OBS	FLD	CROP	ACQNO	LNDSAT	SUNANG	MEAN1	STND1	MEAN2	STND2	MEAN3	STND3	MEAN4	STND4	REJCT
1	1	CR	80129	3	23	10.034	0.879	10.206	1.308	17.158	4.185	22.310	5.743	29
2	1	CR	80219	3	21	10.580	1.006	11.262	1.630	16.569	2.885	18.507	2.866	119
3	1	CR	80255	3	32	17.608	1.309	17.730	1.566	22.366	3.831	21.566	3.912	155
4	1	CR	80273	3	38	21.654	2.037	22.003	1.946	25.958	4.695	25.025	4.962	173
5	1	CR	81005	2	48	17.969	1.837	15.806	1.636	63.014	3.415	69.614	4.332	270
6	1	CR	81059	2	39	19.648	1.246	21.625	1.180	38.755	2.593	37.332	2.665	324
7	1	CR	81060	2	39	16.363	1.522	18.380	2.124	36.254	4.996	35.462	5.733	325
8	1	CR	81078	2	35	12.501	0.682	14.208	0.992	24.961	4.340	24.003	5.166	343
9	3	SY	80129	3	23	10.643	0.906	10.929	0.867	17.095	5.074	20.643	6.832	29
10	3	SY	80219	3	21	7.786	1.025	7.143	1.049	6.738	1.988	8.167	1.591	119
11	3	SY	80255	3	32	17.548	0.942	16.095	1.750	24.714	3.141	24.667	3.936	155
12	3	SY	80273	3	38	21.429	2.275	18.786	2.290	37.786	4.771	39.143	5.457	173
13	3	SY	81005	2	48	20.024	1.841	25.381	1.431	30.595	2.586	26.952	2.767	270
14	3	SY	81059	2	39	20.143	1.424	17.905	1.265	59.595	3.889	60.071	2.991	324
15	3	SY	81060	2	39	14.000	1.126	12.524	1.110	40.548	4.753	49.381	4.659	325
16	3	SY	81078	2	35	13.548	1.017	11.381	0.764	58.405	5.027	62.190	4.666	343
17	4	CR	80129	3	23	11.125	0.576	11.594	1.643	16.938	2.577	21.031	4.131	29
18	4	CR	80219	3	21	9.156	1.629	9.281	2.052	10.063	2.711	11.406	3.140	119
19	4	CR	80255	3	32	17.500	1.524	17.313	2.596	21.250	4.064	20.094	4.828	155
20	4	CR	80273	3	38	20.469	1.524	20.844	1.648	27.125	4.195	27.156	4.341	173
21	4	CR	81005	2	48	17.156	1.648	15.000	1.723	60.594	4.095	65.875	4.434	270
22	4	CR	81059	2	39	16.938	1.105	20.063	1.366	43.063	2.514	42.313	3.117	324
23	4	CR	81060	2	39	13.313	0.859	13.531	1.459	28.719	3.372	27.219	3.791	325
24	4	CR	81078	2	35	12.594	0.798	14.781	1.453	25.344	4.374	25.063	5.946	343
25	5	OA	80129	3	23	11.455	0.858	12.227	0.813	15.864	1.583	18.545	2.625	29
26	5	OA	80219	3	21	8.409	0.854	9.045	1.327	8.273	1.723	10.273	2.604	119
27	5	OA	80255	3	32	18.318	1.756	18.182	1.126	28.500	3.320	28.273	4.208	155
28	5	OA	80273	3	38	21.455	1.565	17.136	1.521	37.818	4.338	37.864	5.947	173
29	5	OA	81005	2	48	25.955	1.495	31.000	1.195	50.409	3.775	45.409	3.528	270
30	5	OA	81059	2	39	21.500	1.263	22.045	1.676	44.727	3.521	41.727	4.803	324
31	5	OA	81060	2	39	16.682	1.171	18.136	1.833	34.955	2.193	32.591	2.667	325
32	5	OA	81078	2	35	11.182	1.259	11.682	0.839	17.545	12.125	16.364	14.741	343
33	6	SY	80129	3	23	10.816	0.856	11.263	0.760	18.763	2.365	23.605	2.163	29
34	6	SY	80219	3	21	9.579	0.889	10.211	0.905	11.105	2.836	13.368	3.428	119
35	6	SY	80255	3	32	18.789	0.935	17.763	1.979	32.090	3.179	33.737	4.572	155
36	6	SY	80273	3	38	20.474	1.289	17.237	1.601	41.526	3.228	45.474	3.415	173
37	6	SY	81005	2	48	21.263	1.309	26.895	1.448	33.158	4.004	28.316	3.835	270
38	6	SY	81059	2	39	17.553	1.058	17.079	1.566	45.895	2.807	44.316	3.231	324
39	6	SY	81060	2	39	12.658	0.994	11.342	1.438	27.895	3.351	26.842	3.192	325
40	6	SY	81078	2	35	12.211	1.234	10.605	1.424	46.711	6.080	49.711	7.177	343
41	7	PAS	80129	3	23	11.077	0.935	12.038	1.341	16.231	1.032	19.769	2.971	29
42	7	PAS	80219	3	21	9.423	1.023	10.154	1.223	12.538	3.755	14.962	4.530	119
43	7	PAS	80255	3	32	17.577	1.206	16.577	1.901	20.462	5.616	20.077	6.449	155
44	7	PAS	80273	3	38	19.462	2.404	17.923	2.153	24.038	6.856	24.654	7.683	173
45	7	PAS	81005	2	48	20.462	1.944	23.308	2.168	41.231	8.664	39.000	10.609	270
46	7	PAS	81059	2	39	18.423	0.945	17.462	1.655	53.308	8.442	53.423	9.770	324
47	7	PAS	81060	2	39	12.077	0.796	10.885	1.107	29.885	5.472	28.423	5.132	325
48	7	PAS	81078	2	35	12.769	0.710	13.115	1.681	44.731	12.019	48.000	14.819	343
49	8	CR	80129	3	23	11.609	0.856	12.435	0.958	19.043	1.837	24.022	1.693	29
50	8	CR	80219	3	21	7.957	0.815	7.348	1.449	7.000	1.687	7.652	1.840	119
51	8	CR	80255	3	32	18.007	1.112	17.413	1.392	19.783	3.010	18.304	3.258	155
52	8	CR	80273	3	38	21.761	1.365	20.935	1.611	31.696	3.994	31.674	4.033	173
53	8	CR	81005	2	48	17.891	1.402	15.196	1.108	61.130	3.902	66.848	3.559	270
54	8	CR	81059	2	39	18.761	0.766	19.739	0.929	40.065	2.736	39.543	2.268	324
55	8	CR	81060	2	39	12.304	0.765	11.848	0.868	21.239	1.888	17.870	1.600	325
56	8	CR	81078	2	35	12.783	0.513	15.326	0.944	24.348	2.923	22.478	3.520	343

OBS	FLD	CROP	ACQNO	ENESAT	SUNANG	MEAN1	STND1	MEAN2	STND2	MEAN3	STND3	MEAN4	STND4	REPET
57	9	BS	80129	3	23	10.700	1.581	11.620	1.725	15.200	2.792	18.680	3.113	29
58	9	BS	80219	3	21	9.700	1.055	10.160	1.621	12.080	4.110	13.660	4.312	119
59	9	BS	80255	3	32	17.620	1.283	17.800	1.906	19.260	4.070	18.380	3.757	155
60	9	BS	80273	3	38	24.240	3.292	25.700	4.630	30.400	5.249	30.340	5.232	173
61	9	BS	81005	2	48	18.260	1.468	15.480	1.821	61.340	4.415	67.440	4.343	270
62	9	BS	81059	2	39	19.000	0.969	20.400	0.857	40.220	2.501	39.160	2.132	324
63	9	BS	81060	2	39	18.560	1.343	20.080	1.724	45.500	4.626	45.280	4.815	325
64	9	BS	81078	2	35	12.900	0.647	15.500	1.500	26.160	2.645	25.160	2.582	343
65	10	PAS	80129	3	23	11.063	0.840	11.313	0.780	24.563	2.341	29.375	3.624	29
66	10	PAS	80219	3	21	10.813	1.030	11.563	1.076	23.969	3.277	27.250	4.016	119
67	10	PAS	80255	3	32	18.438	1.162	18.969	1.769	42.375	5.179	44.188	6.219	155
68	10	PAS	80273	3	38	25.719	1.971	24.875	3.129	49.688	10.139	51.406	10.564	173
69	10	PAS	81005	2	48	23.000	1.566	22.750	1.741	62.844	3.655	63.594	4.486	270
70	10	PAS	81059	2	39	19.594	0.875	19.969	1.092	46.563	2.078	46.188	2.856	324
71	10	PAS	81060	2	39	16.156	1.247	16.000	1.459	47.063	4.772	48.625	4.818	325
72	10	PAS	81078	2	35	13.219	0.941	13.813	0.859	38.500	3.427	39.469	3.501	343
73	11	SR	80129	3	23	11.267	1.009	9.822	1.193	20.911	4.016	23.867	4.015	29
74	11	SR	80219	3	21	10.000	0.798	8.044	1.261	21.289	4.304	25.467	4.288	119
75	11	SR	80255	3	32	18.556	1.216	16.378	2.146	41.622	4.428	44.578	4.272	155
76	11	SR	80273	3	38	22.978	2.006	20.133	2.920	42.333	5.604	43.333	6.382	173
77	11	SR	81005	2	48	20.467	2.074	21.300	1.737	43.400	5.366	41.133	5.775	270
78	11	SR	81059	2	39	19.156	1.213	18.600	1.468	47.800	4.388	49.489	4.304	324
79	11	SR	81060	2	39	14.667	1.567	13.822	1.319	41.556	5.030	43.756	6.165	325
80	11	SR	81078	2	35	13.644	1.558	14.111	1.722	39.556	5.471	41.867	6.066	343
81	12	PAS	80129	3	23	10.405	0.782	9.084	1.123	24.053	2.028	30.641	2.216	29
82	12	PAS	80219	3	21	10.550	1.083	11.450	1.165	18.382	2.970	21.466	2.856	119
83	12	PAS	80255	3	32	20.580	1.228	21.985	1.810	39.053	2.872	40.168	2.888	155
84	12	PAS	80273	3	38	25.053	1.536	25.092	1.765	46.885	2.889	48.641	2.779	173
85	12	PAS	81005	2	48	19.137	1.822	17.656	1.214	64.603	3.898	68.046	4.350	270
86	12	PAS	81059	2	39	18.336	0.891	18.004	1.151	43.191	3.218	42.496	2.965	324
87	12	PAS	81060	2	39	12.885	0.856	12.176	1.140	28.412	4.314	27.565	4.110	325
88	12	PAS	81078	2	35	12.595	0.523	12.947	0.683	29.107	3.809	29.183	3.571	343
89	13	SY	80129	3	23	10.500	1.030	10.885	1.177	15.577	3.252	19.615	3.790	29
90	13	SY	80219	3	21	9.500	1.030	8.538	2.005	19.346	8.333	24.154	10.433	119
91	13	SY	80255	3	32	17.962	0.824	16.962	1.587	35.731	5.910	38.000	6.893	155
92	13	SY	80273	3	38	21.500	1.364	21.231	1.728	34.923	6.292	34.462	6.076	173
93	13	SY	81005	2	48	21.192	2.668	22.269	3.014	47.538	6.748	45.115	6.185	270
94	13	SY	81059	2	39	17.692	1.087	16.385	1.023	58.577	4.717	61.577	6.376	324
95	13	SY	81060	2	39	11.538	0.811	10.000	0.283	29.731	2.647	29.346	3.314	325
96	13	SY	81078	2	35	12.615	0.456	11.769	0.908	53.615	7.398	59.923	9.683	343
97	14	CR	80129	3	23	11.250	0.718	11.594	1.103	20.875	4.263	26.813	6.245	29
98	14	CR	80219	3	21	9.688	2.206	10.313	2.934	14.219	5.928	16.531	7.662	119
99	14	CR	80255	3	32	17.969	1.379	18.438	1.523	21.469	4.040	21.313	6.193	155
100	14	CR	80273	3	38	20.781	1.947	19.656	2.295	34.156	7.108	35.031	8.540	173
101	14	CR	81005	2	48	18.469	1.626	16.438	1.813	58.469	2.984	63.469	3.455	270
102	14	CR	81059	2	39	10.125	0.942	19.500	1.344	39.219	3.319	38.538	4.340	324
103	14	CR	81060	2	39	12.000	0.718	11.875	0.751	19.375	2.904	17.063	2.961	325
104	14	CR	81078	2	35	12.313	0.471	13.875	0.833	25.625	5.813	25.156	7.345	343
105	15	PAS	80129	3	23	12.028	0.964	12.228	1.098	27.345	1.371	33.697	1.545	29
106	15	PAS	80219	3	21	12.145	1.130	14.697	1.660	24.021	2.253	26.186	2.095	119
107	15	PAS	80255	3	32	22.386	1.692	25.083	2.314	42.090	2.363	43.490	3.751	155
108	15	PAS	80273	3	38	24.690	1.988	25.124	2.811	46.793	4.348	48.731	4.298	173
109	15	PAS	81005	2	48	24.041	1.615	24.517	1.055	66.517	3.103	67.772	3.763	270
110	15	PAS	81059	2	39	19.669	1.035	20.752	1.222	51.014	2.469	51.545	3.327	324
111	15	PAS	81060	2	39	12.910	0.623	12.138	0.910	26.297	2.651	24.621	2.555	325
112	15	PAS	81078	2	35	15.469	1.074	16.731	1.265	47.152	2.277	48.386	2.555	343

OBS	FLD	CROP	ACQNO	LNDSAT	SUNANG	MEAN1	STND1	MEAN2	STND2	MEAN3	STND3	MEAN4	STND4	DEPCT
113	16	TREE	80129	3	23	9.729	1.298	8.000	1.965	18.559	4.065	24.390	4.756	29
114	16	TREE	80219	3	21	8.966	1.299	8.136	2.825	15.678	4.562	19.780	4.568	119
115	16	TREE	80255	3	32	16.915	1.550	16.678	3.219	27.458	4.066	29.458	4.673	155
116	16	TREE	80273	3	38	21.932	1.920	21.678	1.570	41.525	4.662	43.492	4.364	173
117	16	TREE	81005	2	48	17.932	2.924	19.847	4.185	48.712	3.855	50.814	3.716	270
118	16	TREE	81059	2	39	16.847	1.720	17.966	2.334	40.373	4.355	39.712	4.702	324
119	16	TREE	81060	2	39	11.407	1.100	10.644	0.943	17.475	1.775	15.797	1.573	325
120	16	TREE	81078	2	35	11.593	1.631	11.559	2.246	30.678	4.439	32.322	5.444	343
121	17	SY	80129	3	23	10.681	0.916	10.634	0.972	21.957	2.389	27.039	3.347	29
122	17	SY	80219	3	21	9.693	0.916	9.747	0.894	12.860	2.207	14.479	2.205	119
123	17	SY	80255	3	32	19.245	1.155	17.872	1.522	37.506	3.564	38.521	3.424	155
124	17	SY	80273	3	38	23.798	1.334	21.599	1.372	44.016	3.377	45.163	3.239	173
125	17	SY	81005	2	48	17.984	1.610	15.580	1.616	62.689	5.390	65.626	6.178	270
126	17	SY	81059	2	39	16.774	1.106	15.346	1.173	60.412	4.864	66.175	6.858	324
127	17	SY	81060	2	39	12.089	0.958	10.121	1.106	37.502	6.985	39.475	8.555	325
128	17	SY	81078	2	35	11.934	0.484	10.475	0.771	54.545	5.236	63.366	6.665	343
129	19	PAS	80129	3	23	12.150	1.270	12.145	1.344	23.432	2.447	28.598	2.531	29
130	19	PAS	80219	3	21	11.282	1.203	13.479	1.975	20.273	3.364	22.769	3.009	119
131	19	PAS	80255	3	32	21.466	1.701	24.466	2.832	39.342	3.032	40.415	3.226	155
132	19	PAS	80273	3	38	25.598	2.109	26.530	3.092	45.235	5.380	46.705	6.130	173
133	19	PAS	81005	2	48	23.278	1.419	23.829	1.443	65.278	3.595	68.056	4.352	270
134	19	PAS	81059	2	39	19.705	1.318	20.474	1.244	49.385	3.238	49.491	3.581	324
135	19	PAS	81060	2	39	14.667	1.131	14.043	1.432	33.650	4.992	32.850	5.184	325
136	19	PAS	81078	2	35	15.098	1.298	15.940	1.625	43.833	4.444	45.000	4.595	343
137	20	SY	80129	3	23	10.465	1.206	15.313	1.322	17.697	1.625	20.525	1.417	29
138	20	SY	80219	3	21	8.253	0.800	8.828	1.125	7.657	1.303	9.101	1.241	119
139	20	SY	80255	3	32	18.000	1.278	17.131	1.397	28.222	2.585	27.939	2.906	155
140	20	SY	80273	3	38	21.848	1.467	18.717	2.680	34.990	2.341	35.273	2.198	173
141	20	SY	81005	2	48	21.414	0.904	25.636	1.453	30.434	2.811	26.000	3.127	270
142	20	SY	81059	2	39	16.515	0.850	16.949	1.053	49.050	1.955	48.091	2.868	324
143	20	SY	81060	2	39	12.646	0.704	11.434	0.939	27.828	3.031	25.970	2.388	325
144	20	SY	81078	2	35	12.475	0.578	10.859	0.948	41.677	3.043	43.485	4.205	343
145	21	CR	80129	3	23	12.132	1.041	14.268	1.230	17.549	1.714	20.099	1.255	29
146	21	CR	80219	3	21	9.408	0.785	10.479	0.734	9.873	1.241	11.592	1.600	119
147	21	CR	80255	3	32	18.394	1.102	19.225	1.456	22.746	2.750	21.423	2.450	155
148	21	CR	80273	3	38	19.507	1.672	19.042	1.224	26.958	10.479	27.169	13.196	173
149	21	CR	81005	2	48	19.239	1.457	16.690	1.226	66.042	2.959	69.867	4.195	270
150	21	CR	81059	2	39	19.014	0.870	21.310	0.855	37.493	1.501	35.408	1.856	324
151	21	CR	81060	2	39	14.394	0.783	15.239	1.035	26.789	2.645	24.282	3.150	325
152	21	CR	81078	2	35	12.423	0.601	14.648	0.812	22.493	2.055	20.817	2.543	343
153	22	PAS	80129	3	23	12.278	1.210	11.083	0.806	18.167	1.595	22.444	1.874	29
154	22	PAS	80219	3	21	8.417	0.649	8.583	1.317	8.167	1.404	9.222	1.758	119
155	22	PAS	80255	3	32	18.056	1.120	15.667	1.287	32.000	2.342	34.111	2.315	155
156	22	PAS	80273	3	38	20.000	1.042	15.944	1.308	42.611	2.429	45.278	3.009	173
157	22	PAS	81005	2	48	25.139	1.457	25.500	1.207	51.278	3.168	49.944	3.518	270
158	22	PAS	81059	2	39	19.389	0.964	21.167	1.000	40.944	1.638	38.167	1.231	324
159	22	PAS	81060	2	39	14.833	1.028	15.056	1.413	29.194	3.853	26.889	4.426	325
160	22	PAS	81078	2	35	15.056	0.924	17.889	1.008	35.167	1.648	33.583	1.811	343
161	23	PAS	80129	3	23	12.655	1.245	12.186	1.014	23.637	2.228	27.504	2.435	29
162	23	PAS	80219	3	21	10.407	1.015	11.301	1.315	18.965	4.311	22.460	5.087	119
163	23	PAS	80255	3	32	19.894	1.263	20.717	1.839	37.681	4.060	40.221	4.834	155
164	23	PAS	80273	3	38	22.699	2.212	21.540	2.560	42.327	7.956	45.177	9.096	173
165	23	PAS	81005	2	48	22.018	1.866	23.168	1.899	59.407	3.710	61.257	5.049	270
166	23	PAS	81059	2	39	18.743	0.980	19.496	1.111	45.080	3.759	44.911	4.189	324
167	23	PAS	81060	2	39	14.858	1.101	14.761	1.351	36.080	4.736	35.894	6.213	325
168	23	PAS	81078	2	35	13.947	1.016	14.611	1.326	36.690	2.958	37.381	4.027	343

OBS	FLD	CROP	ACQNO	INTSAT	SUNANG	MEAN1	STND1	MEAN2	STND2	MEAN3	STND3	MEAN4	STND4	REFDT
169	24	PAS	80129	3	23	13.006	1.330	13.016	1.792	25.487	3.125	29.936	3.209	29
170	24	PAS	80219	3	21	11.188	1.508	12.019	2.602	21.443	3.876	24.497	3.555	119
171	24	PAS	80255	3	32	20.385	2.147	20.908	3.342	40.557	4.493	42.774	4.984	155
172	24	PAS	80273	3	38	24.389	2.178	21.573	2.928	45.866	4.983	47.917	5.343	173
173	24	PAS	81005	2	48	21.669	2.390	22.354	3.018	61.580	4.717	64.115	5.168	270
174	24	PAS	81059	2	39	20.592	1.864	21.366	2.735	49.885	3.583	50.006	3.455	324
175	24	PAS	81060	2	39	17.331	1.881	18.188	3.336	47.908	5.225	49.585	5.457	325
176	24	PAS	81078	2	35	14.984	1.677	15.742	2.763	42.583	4.854	43.729	4.463	343
177	25	SY	80129	3	23	12.970	1.301	14.038	1.188	17.447	1.589	19.394	1.507	29
178	25	SY	80219	3	21	8.924	0.768	9.141	1.025	9.008	1.521	10.538	1.779	119
179	25	SY	80255	3	32	16.985	1.198	14.538	1.339	33.409	2.826	35.266	3.240	155
180	25	SY	80273	3	38	20.500	2.243	17.523	2.330	36.545	5.029	38.508	6.046	173
181	25	SY	81005	2	48	24.250	2.365	30.023	2.728	39.341	4.860	33.788	4.702	270
182	25	SY	81059	2	39	19.773	1.123	19.242	1.211	61.924	3.696	64.530	4.125	324
183	25	SY	81060	2	39	15.886	1.053	14.265	1.062	59.977	6.883	64.591	8.434	325
184	25	SY	81078	2	35	12.720	0.576	12.091	1.136	57.303	4.353	64.992	5.492	343
185	26	CR	80129	3	23	10.936	0.830	10.898	0.753	13.178	1.979	15.414	1.991	29
186	26	CR	80219	3	21	9.580	0.988	10.159	0.902	10.420	1.511	12.166	1.404	119
187	26	CR	80255	3	32	16.605	1.085	16.535	1.479	18.153	2.813	17.395	2.850	155
188	26	CR	80273	3	38	22.650	1.694	23.898	1.823	28.414	2.891	27.936	2.676	173
189	26	CR	81005	2	48	19.561	1.388	16.280	1.829	65.904	5.184	70.439	6.303	270
190	26	CR	81059	2	39	21.146	1.159	22.484	1.357	45.032	2.763	41.826	2.790	324
191	26	CR	81060	2	39	17.847	1.167	19.892	1.380	42.701	4.745	40.866	5.671	325
192	26	CR	81078	2	35	13.459	0.937	16.803	1.685	26.675	3.624	24.541	4.083	343
193	27	SY	80129	3	23	13.471	1.120	15.667	1.545	21.275	2.624	23.529	3.055	29
194	27	SY	80219	3	21	10.353	0.594	11.392	1.133	15.373	2.383	16.745	2.756	119
195	27	SY	80255	3	32	18.392	1.343	20.176	1.396	24.039	3.561	23.039	3.577	155
196	27	SY	80273	3	38	21.843	1.347	22.235	1.531	26.902	3.759	26.059	3.844	173
197	27	SY	81005	2	48	18.314	1.364	16.392	2.255	60.451	2.166	63.980	2.746	270
198	27	SY	81059	2	39	21.020	1.029	22.765	1.210	41.176	1.946	39.725	2.228	324
199	27	SY	81060	2	39	16.412	1.134	18.078	2.106	35.980	4.329	34.451	4.851	325
200	27	SY	81078	2	35	12.804	0.775	14.902	1.044	26.255	3.767	25.020	3.917	343
201	28	PAS	80129	3	23	12.962	0.999	11.808	0.801	27.308	2.112	32.038	3.039	29
202	28	PAS	80219	3	21	10.231	0.863	9.500	0.648	25.000	3.919	29.077	3.908	119
203	28	PAS	80255	3	32	19.308	1.011	17.423	1.447	41.731	2.273	45.846	3.295	155
204	28	PAS	80273	3	38	24.192	2.079	22.962	1.755	44.577	2.452	48.231	2.833	173
205	28	PAS	81005	2	48	20.154	1.759	19.731	1.313	59.308	2.811	61.077	3.762	270
206	28	PAS	81059	2	39	21.000	1.131	21.192	0.634	49.346	2.449	46.308	1.975	324
207	28	PAS	81060	2	39	16.192	0.801	15.038	1.148	39.500	3.972	38.462	4.218	325
208	28	PAS	81078	2	35	14.885	1.033	14.731	0.874	43.885	2.903	45.385	2.246	343
209	30	TREE	80129	3	23	11.531	1.047	11.250	1.295	17.938	2.918	21.750	3.273	29
210	30	TREE	80219	3	21	8.813	0.965	8.719	1.922	11.000	2.578	12.656	3.229	119
211	30	TREE	80255	3	32	17.000	1.244	16.969	2.177	24.000	4.280	23.000	4.945	155
212	30	TREE	80273	3	38	21.906	4.328	22.125	5.123	33.531	7.331	32.594	6.375	173
213	30	TREE	81005	2	48	18.438	1.703	17.125	2.324	53.031	3.228	55.469	5.542	270
214	30	TREE	81059	2	39	18.313	0.659	18.500	1.218	43.125	2.587	42.406	3.068	324
215	30	TREE	81060	2	39	14.201	1.023	13.938	1.390	35.094	4.253	35.219	5.129	325
216	30	TREE	81078	2	35	12.500	1.047	12.188	0.965	32.625	3.816	33.531	4.977	343

Field 29 was not extracted.



Segment 0561 Rojas, Argentina

SEGMENT NO. 0561 - ROJAS, ARGENTINA

Field	Pixel	Line
1 CR	101	138
	108	130
	113	135
	108	143
2 PAS	109	129
	117	117
	128	130
	116	149
	109	144
	114	135
3 ALF	120	114
	130	122
	127	128
	118	116
4 PAS	121	112
	123	110
	133	116
	130	121
5 CR	124	109
	129	103
	138	109
	133	115
6 SY	125	99
	134	87
	149	95
	139	108
8 CR	89	78
	95	73
	97	78
	91	82
9 SY	89	72
	93	69
	95	72
	90	75
10 CR	61	37
	75	23
	77	28
	67	40

Field	Pixel	Line
11 SR	70	10
	74	18
	74	21
	71	25
	66	16
12 SY	78	24
	85	17
	89	15
	91	15
	81	33
13 PAS	77	17
	85	08
	87	11
	91	14
	84	16
	79	21
14 SUN	71	08
	76	02
	83	07
	76	17

using acquisitions 81059
81005

Field	Pixel	Line

SEGMENT NO. 0561 - ROJAS, ARGENTINA

Field Number	80129	80219	81005	81059	81078	81095	81114	Comments
1 CR	BS	BS	Pink	Purp/Grn	Clouds	Clouds	BS	
2 PAS	Red	Yell/Pink	Purple	Purple	Shadows	Shadows	Purp-Red	
3 ALF	BS	BS	Purple	Rose	Haze	Missing	Pink	
4 PAS	Red	Pink/Grn	Red	Rose	|	data	Pink	
5 CR	BS	BS	Red	BS	|	|	Lt Grn	
6 SY	Yell/Grn	BS	BS	Red	|	|	Red	
8 CR	BS	BS	Red	BS	|	|	Grn/Brn	
9 SY	BS	BS	Gray	Red	|	|	Mauve	
10 CR	BS	BS	Red	BS-Grn	|	|	Lt Grn	
11 SR	BS	BS	Lt Grn	Pink	|	|	Yell/Brn	
12 SY	Lt Grn	BS	Lt Grn	Red	|	|	Red	
13 PAS	BS	BS	Purp	BS	|	|	Yell/Brn	80129 ? boundary
14 SUN	BS	BS	Red	Dark	|	|	Blue Grn	80129 ? boundary

BS is bare soil

SEGMENT NO. 0561 - ROJAS, ARGENTINA

(Cloud Cover Codes)

Field Number	Acquisition 80129*	80219	81005	81059	81078	81060	81114
1	0	0	0	0	1	4	0
2	0	0	0	0	1	4	0
3	0	0	0	0	1	4	0
4	0	0	0	0	5	4	0
5	0	0	0	0	5	4	0
6	0	0	0	0	5	4	0
8	0	0	0	0	5	1	0
9	0	0	0	0	5	1	0
10	0	0	0	0	5	4	0
11	0	0	0	0	5	4	0
12	0	0	0	0	5	4	0
13	0	0	0	0	5	4	0
14	0	0	0	0	5	4	0

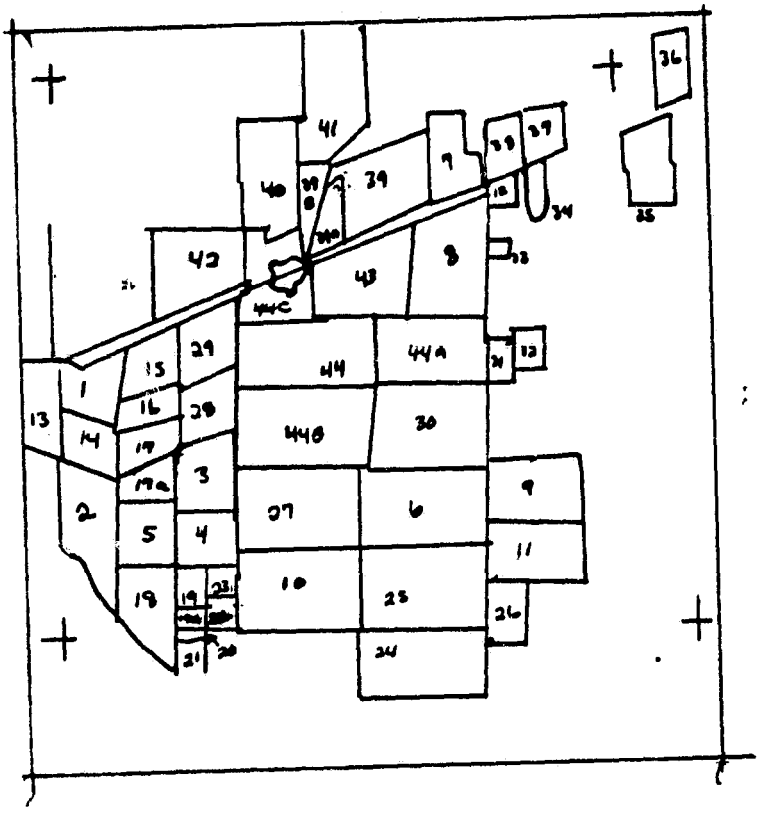
*field 4 - size varies.

Segment 0561

S T A T I S T I C A L A N A L Y S I S S Y S T E M 15:40 FRIDAY, MAY 20, 1983 1

OBS	FLD	CROP	ACQNO	LNDSAT	SUNANG	MEAN1	STND1	MEAN2	STND2	MEAN3	STND3	MEAN4	STND4	REED1
1	1	CR	80129	3	23	10.807	1.131	12.133	1.568	16.590	4.006	19.639	4.549	29
2	1	CR	80219	3	21	10.434	1.202	11.349	1.493	16.084	3.765	18.145	4.112	119
3	1	CR	81005	2	48	21.928	1.286	20.024	1.753	63.928	4.803	65.554	6.171	270
4	1	CR	81059	2	39	18.060	1.272	18.964	1.292	41.614	5.635	39.928	6.448	324
5	2	PAS	80129	3	23	10.305	0.845	7.944	0.928	30.898	3.667	38.226	4.290	29
6	2	PAS	80219	3	21	10.209	0.870	9.966	1.060	22.893	3.307	27.017	3.140	119
7	2	PAS	81005	2	48	20.740	1.398	22.458	1.243	53.938	2.607	54.977	3.077	270
8	2	PAS	81059	2	39	18.610	0.675	17.780	1.056	47.401	2.780	46.305	3.058	324
9	3	ALF	80129	3	23	8.681	0.813	8.333	0.918	8.884	1.778	11.116	2.342	29
10	3	ALF	80219	3	21	7.710	0.893	6.014	0.931	5.913	1.687	6.783	1.862	119
11	3	ALF	81005	2	48	21.275	1.504	23.420	1.429	50.101	1.832	49.130	1.894	270
12	3	ALF	81059	2	39	17.899	0.942	16.420	1.193	48.493	3.783	47.841	4.164	324
13	4	PAS	80129	3	23	10.000	0.803	7.909	1.069	24.283	2.823	29.667	2.698	29
14	4	PAS	80219	3	21	9.733	0.756	9.833	0.606	17.433	1.395	21.183	1.513	119
15	4	PAS	81005	2	48	19.900	1.537	19.200	1.363	60.300	2.889	64.200	2.406	270
16	4	PAS	81059	2	39	17.750	0.656	17.033	1.057	44.333	2.621	42.617	2.713	324
17	5	CR	80129	3	23	10.191	0.796	11.079	0.944	14.281	1.739	16.393	1.696	29
18	5	CR	80219	3	21	9.101	0.905	9.742	0.791	11.258	1.578	12.966	1.256	119
19	5	CR	81005	2	48	19.169	1.625	17.596	1.277	65.135	2.577	69.090	2.372	270
20	5	CR	81059	2	39	18.202	0.726	21.820	0.791	36.090	1.697	34.067	1.857	324
21	6	SY	80129	3	23	9.891	0.721	10.451	1.046	17.361	1.767	22.556	2.208	29
22	6	SY	80219	3	21	7.474	0.891	6.083	0.924	5.256	2.402	6.541	2.812	119
23	6	SY	81005	2	48	20.835	2.049	26.823	2.248	32.947	3.288	29.590	4.226	270
24	6	SY	81059	2	39	17.568	1.004	15.316	1.128	51.992	6.546	50.534	7.371	324
25	8	CR	80129	3	23	9.359	1.068	9.051	0.972	15.974	1.799	19.590	1.634	29
26	8	CR	80219	3	21	9.718	0.793	11.256	0.910	13.590	1.568	15.769	1.842	119
27	8	CR	81005	2	48	18.564	1.603	17.385	2.172	62.872	2.505	69.615	3.361	270
28	8	CR	81059	2	39	19.590	0.938	23.103	1.373	41.974	2.121	40.308	1.866	324
29	9	SY	80129	3	23	9.667	0.483	10.190	0.680	15.619	2.037	19.857	2.516	29
30	9	SY	80219	3	21	8.333	0.913	7.667	1.354	8.762	3.177	10.619	4.105	119
31	9	SY	81005	2	48	22.333	1.713	24.333	2.497	47.857	7.818	46.619	10.102	270
32	9	SY	81059	2	39	17.905	0.768	17.286	1.765	57.000	5.468	60.286	7.037	324
33	10	CR	80129	3	23	9.414	0.929	9.090	1.325	14.766	2.347	17.865	2.778	29
34	10	CR	80219	3	21	8.441	0.979	8.054	1.439	8.369	2.673	9.396	3.449	119
35	10	CR	81005	2	48	18.541	1.628	16.982	2.023	65.270	5.390	72.613	6.510	270
36	10	CR	81059	2	39	18.964	0.933	21.315	1.446	41.270	2.793	39.928	3.100	324
37	11	SR	80129	3	23	9.675	0.764	9.825	0.712	13.800	1.924	16.050	2.012	29
38	11	SR	80219	3	21	9.550	0.504	9.825	0.813	9.125	1.324	9.975	1.476	119
39	11	SR	81005	2	48	26.275	2.230	36.575	2.620	43.325	2.664	38.050	2.631	270
40	11	SR	81059	2	39	19.225	1.121	18.200	1.018	53.050	4.925	52.350	6.391	324
41	12	SY	80129	3	23	11.140	1.139	12.674	1.805	19.640	2.017	23.279	1.699	29
42	12	SY	80219	3	21	8.035	0.887	7.593	1.067	7.663	2.394	8.698	2.710	119
43	12	SY	81005	2	48	26.023	2.006	33.895	2.795	44.570	3.432	39.802	3.687	270
44	12	SY	81059	2	39	17.767	1.205	14.860	0.948	65.349	3.940	73.209	4.576	324

Fields 7, 13, and 14 were not extracted.



Segment 0604 Juarez Celman, Argentina

SEGMENT NO. 0604 - JUAREZ CELMAN, ARGENTINA

Field	Pixel	Line
1 BS	13	73
	28	73
	28	71
	26	84
	13	81
2 PAS	12	93
	26	97
	25	123
	16	113
	12	110
3 SY or PE	44	91
	60	89
	60	103
	44	103
4 CR or SR/F	44	105
	60	105
	60	114
	44	114
5 PAS	28	103
	41	103
	41	114
	28	114
6 SR/F	97	97
	130	99
	130	112
	97	112
7 CR	119	21
	127	20
	127	29
	131	29
	132	35
	120	38
8 PAS	115	45
	133	38
	131	63
	113	62
9 SR/F	133	95
	157	95
	157	107
	133	107
10 SR/F	62	113
	94	113
	93	129
	62	128
11 CR	133	109
	158	109
	158	118
	156	118
	156	119
	133	119
12 SY	136	36
	142	34
	142	39
	136	39
13 CR?	1	73
	10	73
	10	90
	1	88
14 PLOWED	12	83
	25	86
	24	94
	12	91
15 PAS	31	70
	44	65
	45	75
	30	79
16 PAS think plowed, bare soil	30	81
	44	78
	44	83
	28	86
17 CR or SR	29	88
	44	84
	43	90
	29	95
17a CR or SR	29	96
	43	92
	42	101
	29	101
18 PAS	28	116
	41	116
	41	136
	28	126
19-23	question these field boundaries	
24 CR	96	132
	129	132
	129	147
	96	147
27 SR/F	63	96
	95	97
	95	111
	63	111
29 PAS	47	64
	61	60
	63	72
	47	77
30 PAS	103	79
	131	80
	131	95
	101	95
31 CR	135	69
	141	69
	141	76
	135	76
32 SR/F or CR	142	67
	150	67
	149	74
	142	74
33 CR	135	47
	140	47
	140	50
	135	50

SEGMENT NO. 0604 - JUAREZ CELMAN, ARGENTINA (cont.)

Field	Pixel	Line
35 CR	174	25
	187	21
	187	32
	188	33
	188	40
	176	40
	176	33
	174	32
36 PAS	183	4
	193	3
	193	16
	183	19
37 CR	146	20
	157	19
	157	27
	146	30
38 PAS	136	23
	144	21
	144	31
	136	33
39 PAS	97	30
	116	23
	117	39
	95	45
40 CR	65	21
	80	21
	80	43
	73	45
	73	43
	66	43
41 CR	84	20
	84	1
	98	1
	98	21
	90	29
	82	29
	82	20
42 PAS	40	44
	62	44
	62	55
	40	61

Field	Pixel	Line
44-A PAS	103	64
	131	65
	131	77
	103	77
44-B PAS	63	80
	100	80
	98	94
	63	93

Field	Pixel	Line

SEGMENT NO. 0604 - JUAREZ CELMAN, ARGENTINA

Field Number	80185	80239	80329*	80347	81080	81116	Comments
1 BS	Red	Red	Green	Lt Red	Harv.Grn	Red	
2 PAS	Green	Blue-Grn	Green	Lt Red	Dk & Lt Grn	Red Grn	Appears to be one field
3 SY or PE	Green	Grn mix	Lt Grn	Green	Dk Grn	Green	
4 CR or SR/F	Green	Green	Dk & Lt Grn	Green	Green	Dk Grn	(80329 - Plowing)
5 PAS	Green	Dk Blue	Dk Grn	Purple	Red Pink	Yell Mix	
6 SR/F	Green	Blue-Grn	Red	Dk & Lt Grn	Green	Green	
7 CR	Blue grn	Blue-Grn	Dk & Lt Grn	Green	Dk Brn	Purp Drk Grn	(80329 - Plowing)
8 PAS	Red	Yell.Grn	Green	Red	Org Grn	Green	
9 SR/F	Grn-Yell	Grn Mix	Red	Red/Purp	Grn/Purp	Red	(81080 - eastern purple)
10 SR/F	Green	Purp Grn	Red	Green	Yellow	Grn/Purp	(80239-drainage)
11 CR	Grn-Yell	Green	Red	Red**	Org-Yell	Org-Yell	
12 SY	Orange	Blue Grn	Lt Grn	Lt Grn	Red	Green	
13 CR?	Green	Green	Green	Green	Dk Grn	Purp Dk Brn	
14 BS	Red	Red	Green	Green	Dk Grn	Red	
15 PAS	Red	Red	Red	Red	Yellow	Red	
16 PAS	Red	Red	Green	Green	Dk Grn	Green	
17 CR or SR/F	Red/Grn	Red/Grn	Lt Grn	Lt Purp	Green	Green	(80105, 80239 appears to be 2 fields)
18 PAS	Red	Red	Red	Red	Org/Yell	Yell Mix	
19 CR or SR/F	Red/Grn	Red/Grn	Dk & Lt Grn	Green	Green	Dk Grn & Grn	(80239 - appears to be 2 fields)
21 CR or SR/F	Green	Green	Dk Grn	Dark	Dk Grn	Dk Grn	
22 BS	Orange	Green	Dk Grn	Dk & Lt Purp	Green	Red	
24 CR	Green	Red/Grn	Grn/Red	Green	Green	Green	(80239 - appears to be 2 fields) (8023 - drainage)
27 SR/F	Green	Blue Grn	Green	Green	Grn-Yell	Green	
28 PAS	Red	Red	Red	Red	Yell-Org	Red	shown as 1 field in G.T. What is Crop? Lake in West. part of field
29 PAS	Green	Dk Grn	Green	Red	Dk & Lt Grn	Green	

Field Number	80185	80239	80329*	80347	81080	81116	Comments
30 PAS	Red	Grn-Brn mix	Green	Green	Grn-Yell	Green	
31 CR	Red	Green	Green	Green	Green	Dk Grn	
32 SR/F or C	Red	Yell Grn	Red	Green	Green	Grn	
33 CR	Green	Dk Grn	Lt Grn	Green	Brown	Grn	
34 SR/F	Green	Green	Lt Grn	Dk Grn	Green	Dk Grn	Field boundaries are questionable
35 CR	Green	Green	Red/Dk Grn	Green	Red Grn Org	Grn-Yell	(80239 appears to be 2 fields)
36 PAS	Yell.mix	Red	Lt Grn	Green	Green	Dk Grn	
37 CR	Yell.mix	Lt Grn	Green	Red	Harv.Lt Grn	Green	
38 PAS	Grn/Pur.mix	Green	Purple	Green	Pink	Red Mix.	
39 PAS	Red/Grn mix	Red & Grn	Red/Lt Grn	Red	Org Dr Grn Purp	Brn, Yell, Grn	Plowing going on (80329 appears to be several fields)
40 CR	Green	Green	Green	Green	Grn/Brn	Green	
41 CR	Green	Green	lt Grn	Green	Dk Grn	Dk Grn Purp	
42 PAS	Blue/Grn	Green	Red	Red	Yell-Brn	Brn-Yell	
44 PAS	Green	Grn-Yell	Grn, Pink	Red	Yell, Grn Yell-Org	Red, Yell, Grn	44,44A,44B,44C (81080 - 4 fields - 1 plowed)

If most of the fields labeled as corn are actually corn, the vegetative stage does not appear on any acquisitions*. According to the crop calendars, the November and December acquisitions should indicate vegetative growth. Bare soil applies only to the inventory date in most cases.

*Field 11, 37 exceptions.

SEGMENT NO. 0604 - JUAREZ CELMAN, ARGENTINA
(Cloud Cover Codes)
(80347 Base Acquisition)

Acquisition Number	80185[1]	80239[2]	80329[3]	80347	81081[4]	81116[5]
1	2	2	0	0	2	2
2	2	2	0	0	2	2
3	2	2	0	0	2	2
4	2	2	0	0	2	2
5	2	2	0	0	2	2
6	2	2	0	0	2	2
7	2	2	0	0	2	2
8	2	2	0	0	2	2
9	2	2	0	0	2	2
10	2	2	0	0	2	2
11	2	2	0	0	2	2
12	2	2	0	0	2	2
13	2	2	0	0	2	2
14	2	2	0	0	2	2
15	2	2	0	0	2	2
16	2	2	0	0	2	2
17	2	2	0	0	2	2
17a	2	2	0	0	2	2
18	2	2	0	0	2	2
19	2	2	0	0	2	2
24	2	2	0	0	2	2
27	2	2	0	0	2	2
29	2	2	0	0	2	2
30	2	2	0	0	2	2
31	2	2	0	0	2	2
32	2	2	0	0	2	2
33	2	2	0	0	2	2
35	2	2	0	0	2	2

[1]Scene registration off 2 lines.

[2]Scene registration off 2 pixels.

[3]PFC image is larger, cannot be sure of registration, appears okay.

[4]Scene registration off 2 pixels, maybe 1 line.

[5]Scene registration off 1 line 2 pixels.

Segment 0604

STATISTICAL ANALYSIS SYSTEM 14:39 FRIDAY, MAY 20, 1983 1

OBS	FLD	CROP	ACQNO	LNDSAT	SUNANG	MEAN1	STND1	MEAN2	STND2	MEAN3	STND3	MEAN4	STND4	REJECT
1	1	BS	80185	3	18	9.711	0.822	9.232	0.904	18.817	1.840	23.042	2.017	65
2	1	BS	80239	3	28	13.563	1.062	14.937	1.558	27.211	1.624	31.500	2.463	139
3	1	BS	80329	3	49	29.563	1.959	39.183	3.516	45.113	3.339	44.620	2.584	229
4	1	BS	80347	3	49	27.120	1.451	24.437	3.150	59.211	2.509	62.521	4.173	247
5	1	BS	81080	2	35	21.134	2.081	29.944	3.422	35.352	2.541	29.648	1.327	345
6	1	BS	81116	2	27	11.472	0.805	10.697	1.045	34.134	4.098	33.437	4.548	381
7	2	PAS	80185	3	18	9.977	0.723	11.335	1.069	11.674	1.511	13.190	1.637	65
8	2	PAS	80239	3	28	13.661	1.103	15.941	1.214	18.027	2.567	19.457	2.682	139
9	2	PAS	80329	3	49	25.869	1.872	26.584	4.141	40.290	5.801	41.647	7.591	229
10	2	PAS	80347	3	49	27.109	1.491	24.181	1.869	62.837	3.162	65.566	4.015	247
11	2	PAS	81080	2	35	19.665	3.192	27.462	5.481	31.081	6.716	25.398	3.947	345
12	2	PAS	81116	2	27	13.045	1.257	15.407	3.073	24.977	2.325	21.235	1.972	381
13	3	SY?PE	80185	3	18	10.489	0.823	11.978	0.980	14.801	1.573	17.065	1.757	65
14	3	SY?PE	80239	3	28	14.673	1.061	18.602	1.511	24.152	1.668	26.762	2.073	139
15	3	SY?PE	80329	3	49	30.087	1.439	42.130	2.434	48.017	2.276	46.814	1.833	229
16	3	SY?PE	80347	3	49	29.684	1.655	37.563	2.930	42.766	4.114	39.117	3.694	247
17	3	SY?PE	81080	2	35	13.900	1.270	17.558	2.057	24.550	2.892	22.697	2.499	345
18	3	SY?PE	81116	2	27	12.524	0.624	16.528	1.193	18.281	1.835	14.372	1.489	381
19	4	CR?SR	80185	3	18	10.000	0.697	11.794	0.761	12.182	1.383	13.735	1.601	65
20	4	CR?SR	80239	3	28	13.918	1.835	17.241	3.226	20.406	5.013	21.371	4.607	139
21	4	CR?SR	80329	3	49	27.612	3.760	36.376	6.079	42.712	6.803	42.029	6.436	229
22	4	CR?SR	80347	3	49	27.847	1.218	32.912	1.936	40.247	2.807	37.606	3.257	247
23	4	CR?SR	81080	2	35	16.541	1.157	21.947	2.552	31.600	3.060	28.041	3.571	345
24	4	CR?SR	81116	2	27	11.141	0.645	12.947	1.251	19.000	3.353	16.806	2.625	381
25	5	PAS	80185	3	18	10.155	0.781	12.238	0.951	14.827	1.605	16.405	1.545	65
26	5	PAS	80239	3	28	11.185	2.234	12.149	3.660	12.518	5.716	12.952	5.613	139
27	5	PAS	80329	3	49	24.690	2.703	29.452	5.224	41.387	4.335	42.714	3.805	229
28	5	PAS	80347	3	49	27.071	1.217	27.875	1.912	46.893	2.430	46.869	2.591	247
29	5	PAS	81080	2	35	16.506	1.939	18.679	4.163	37.899	5.182	34.619	5.587	345
30	5	PAS	81116	2	27	12.405	0.650	15.298	1.151	25.012	3.431	22.137	3.623	381
31	6	SR/F	80185	3	18	9.481	0.694	11.026	0.936	10.509	1.031	11.156	1.234	65
32	6	SR/F	80239	3	28	13.742	1.093	16.349	1.387	19.391	2.183	20.446	1.389	139
33	6	SR/F	80329	3	49	22.503	1.300	22.124	2.955	45.933	5.066	49.535	5.885	229
34	6	SR/F	80347	3	49	28.915	2.795	37.039	5.457	39.580	6.141	35.708	5.272	247
35	6	SR/F	81080	2	35	16.505	1.211	22.538	2.303	31.314	2.804	27.631	3.026	345
36	6	SR/F	81116	2	27	12.028	0.525	14.793	0.989	18.787	2.557	15.665	2.610	381
37	7	CR	80185	3	18	8.695	0.911	9.435	1.103	8.870	1.531	9.481	1.361	65
38	7	CR	80239	3	28	13.137	1.142	15.015	0.984	17.435	1.637	18.794	1.168	139
39	7	CR	80329	3	49	27.542	4.874	38.031	9.182	42.481	10.808	41.191	9.591	229
40	7	CR	80347	3	49	31.412	1.007	41.305	1.554	47.893	1.911	44.420	1.598	247
41	7	CR	81080	2	35	12.740	0.675	14.008	0.760	24.664	1.924	23.550	1.798	345
42	7	CR	81116	2	27	9.878	0.832	11.015	0.794	15.870	1.605	14.130	1.684	381
43	8	PAS	80185	3	18	9.403	0.702	8.981	1.244	20.443	2.551	25.264	3.214	65
44	8	PAS	80239	3	28	14.667	1.033	19.400	1.340	25.713	1.625	27.701	1.579	139
45	8	PAS	80329	3	49	28.280	1.558	37.741	3.079	45.301	3.363	44.467	2.810	229
46	8	PAS	80347	3	49	25.224	1.322	19.589	1.626	66.829	2.840	73.933	3.923	247
47	8	PAS	81080	2	35	15.915	1.021	20.421	1.221	33.389	2.091	30.309	2.041	345
48	8	PAS	81116	2	27	12.496	0.629	16.619	1.237	22.035	1.639	19.035	1.668	381
49	9	SR/F	80185	3	18	9.655	0.785	11.535	0.918	12.723	1.241	15.708	1.164	65
50	9	SR/F	80239	3	28	14.797	1.075	18.695	1.287	24.545	1.830	26.905	1.725	139
51	9	SR/F	80329	3	49	24.320	1.332	22.994	2.239	59.594	5.399	66.323	7.280	229
52	9	SR/F	80347	3	49	25.422	1.371	22.068	1.947	56.705	4.108	60.015	5.601	247
53	9	SR/F	81080	2	35	16.858	1.463	21.655	3.182	32.585	3.201	28.951	4.366	345
54	9	SR/F	81116	2	27	11.166	0.768	11.335	1.013	25.668	2.222	24.182	2.581	381
55	10	SR/F	80185	3	18	9.595	0.607	11.047	1.137	10.498	1.170	10.759	1.500	65
56	10	SR/F	80239	3	28	14.200	1.722	16.992	3.348	23.846	3.102	24.932	2.615	139

OBS	FLD	CROP	ACQNO	LNDSAT	SUNANG	MEAN1	STND1	MEAN2	STND2	MEAN3	STND3	MEAN4	STND4	REFCT
57	10	SR/F	80329	3	49	24.226	1.582	25.543	3.755	47.037	3.339	49.446	4.817	229
58	10	SR/F	80347	3	49	29.553	1.651	38.216	2.838	40.901	3.066	36.755	2.599	247
59	10	SR/F	81080	2	35	17.955	1.049	26.251	1.899	35.339	2.147	31.821	2.329	345
60	10	SR/F	81116	2	27	12.031	0.592	14.547	1.022	22.574	1.767	20.152	2.016	381
61	11	CR	80185	3	18	8.517	0.787	11.314	0.949	11.533	0.959	13.927	1.291	85
62	11	CR	80239	3	28	15.073	1.070	20.575	1.361	24.272	1.668	25.716	1.495	139
63	11	CR	80329	3	49	23.406	0.990	22.479	1.700	53.207	2.433	59.958	3.743	229
64	11	CR	80347	3	49	25.536	1.198	20.046	1.224	65.169	3.039	73.946	4.018	247
65	11	CR	81080	2	35	15.716	1.290	21.284	2.435	33.778	2.946	32.950	2.956	345
66	11	CR	81116	2	27	11.395	0.703	13.483	1.055	24.345	1.667	23.690	1.541	381
67	13	CR?	80185	3	18	10.127	0.840	12.018	0.969	12.614	1.436	14.506	1.383	85
68	13	CR?	80239	3	28	15.175	1.015	20.048	1.230	23.506	1.795	24.855	1.394	139
69	13	CR?	80329	3	49	26.512	2.522	34.367	4.318	37.886	4.740	36.861	4.883	229
70	13	CR?	80347	3	49	28.886	1.915	35.283	4.169	42.000	2.299	39.633	2.504	247
71	13	CR?	81080	2	35	13.783	0.825	17.120	1.513	24.422	1.724	21.392	2.151	345
72	13	CR?	81116	2	27	10.024	0.831	10.542	0.752	16.139	1.435	13.946	1.482	381
73	14	PLOWED	80185	3	18	9.697	0.938	9.927	1.176	17.248	1.327	21.431	1.833	85
74	14	PLOWED	80239	3	28	13.514	0.987	14.761	1.655	27.780	1.822	32.651	2.145	139
75	14	PLOWED	80329	3	49	24.000	1.810	27.908	3.279	35.972	3.529	36.394	3.388	229
76	14	PLOWED	80347	3	49	27.514	1.579	32.608	2.448	38.028	4.339	35.495	4.864	247
77	14	PLOWED	81080	2	35	15.394	2.660	21.183	4.448	24.330	5.897	19.679	5.810	345
78	14	PLOWED	81116	2	27	11.743	0.810	12.165	1.050	27.569	3.637	24.807	3.398	381
79	15	PAS	80185	3	18	9.257	0.688	7.625	0.886	20.574	2.082	25.743	1.559	85
80	15	PAS	80239	3	28	11.721	0.849	11.699	0.734	27.132	2.220	34.578	3.116	139
81	15	PAS	80329	3	49	19.309	0.978	13.515	1.033	81.654	5.001	104.934	6.699	229
82	15	PAS	80347	3	49	22.191	1.528	17.824	1.651	68.456	6.815	78.169	9.385	247
83	15	PAS	81080	2	35	16.522	1.211	22.853	2.020	33.000	2.129	30.713	1.845	345
84	15	PAS	81116	2	27	11.404	0.754	10.971	0.769	32.882	3.148	32.618	3.176	381
85	16	PAS	80185	3	18	9.675	0.834	8.727	0.927	21.429	2.353	26.338	2.588	85
86	16	PAS	80239	3	28	13.273	1.221	15.130	1.445	27.325	2.191	31.883	2.534	139
87	16	PAS	80329	3	49	26.571	2.769	33.506	6.049	40.974	4.344	41.065	5.660	229
88	16	PAS	80347	3	49	28.182	1.060	35.416	2.430	38.610	2.829	35.623	3.009	247
89	16	PAS	81080	2	35	14.883	1.670	19.026	2.956	27.857	3.323	25.273	1.826	345
90	16	PAS	81116	2	27	11.662	0.641	14.649	1.676	17.234	3.264	14.377	3.653	381
91	17	CR?SR	80185	3	18	9.684	0.781	9.633	1.078	18.214	1.508	22.959	1.974	85
92	17	CR?SR	80239	3	28	13.500	1.237	15.000	1.753	27.224	2.318	31.286	2.454	139
93	17	CR?SR	80329	3	49	27.704	3.559	36.714	7.275	44.673	4.788	44.235	4.718	229
94	17	CR?SR	80347	3	49	28.551	1.228	31.204	2.328	53.010	3.298	52.704	3.411	247
95	17	CR?SR	81080	2	35	16.429	1.443	22.939	3.042	29.551	2.609	25.857	2.416	345
96	17	CR?SR	81116	2	27	12.541	1.095	16.286	2.048	20.867	2.527	17.612	3.035	381
97	18	PAS	80185	3	18	9.528	0.751	9.156	1.352	18.174	1.689	22.702	2.314	85
98	18	PAS	80239	3	28	13.206	1.163	15.220	1.089	25.982	1.819	30.491	2.336	139
99	18	PAS	80329	3	49	20.174	1.449	15.794	3.121	68.748	6.955	84.592	11.233	229
100	18	PAS	80347	3	49	23.495	1.604	19.312	1.825	61.440	4.394	68.743	6.313	247
101	18	PAS	81080	2	35	15.702	1.591	19.908	2.601	34.317	2.060	33.601	2.241	345
102	18	PAS	81116	2	27	12.317	0.676	14.757	1.660	25.991	2.330	24.087	1.818	381
103	24	CR	80185	3	18	9.614	0.781	11.399	1.069	11.116	1.065	11.958	1.385	85
104	24	CR	80239	3	28	14.704	2.106	18.081	4.764	25.092	3.561	26.618	3.593	139
105	24	CR	80329	3	49	26.057	2.689	31.131	7.406	46.489	4.123	46.921	5.875	229
106	24	CR	80347	3	49	31.239	2.195	41.682	4.103	45.972	4.953	41.254	4.269	247
107	24	CR	81080	2	35	15.131	1.307	20.042	2.521	27.226	3.194	24.204	3.564	345
108	24	CR	81116	2	27	11.785	0.610	14.327	1.085	18.180	1.988	15.169	2.035	381
109	27	SR/F	80185	3	18	9.992	0.781	11.720	0.997	11.169	1.033	11.625	1.309	85
110	27	SR/F	80239	3	28	14.204	1.174	17.569	1.877	21.417	2.678	22.077	1.987	139
111	27	SR/F	80329	3	49	27.792	2.065	37.810	3.874	41.665	4.341	39.760	3.736	229
112	27	SR/F	80347	3	49	31.552	2.504	37.228	7.014	54.956	5.135	51.671	6.585	247

Segment 0604

OBS	FLD	CROP	ACQNO	LNDSAT	SUNANG	MEAN1	STND1	MEAN2	STND2	MEAN3	STND3	MEAN4	STND4	REFCT
113	27	SR/F	81080	2	35	17.389	1.466	24.772	2.431	33.978	2.827	30.411	3.310	345
114	27	SR/F	81116	2	27	12.087	0.907	14.877	1.050	20.635	1.796	17.262	1.568	381
115	30	PAS	80185	3	18	9.484	0.688	8.349	1.081	20.164	2.831	25.162	3.133	65
116	30	PAS	80239	3	28	13.876	1.125	16.737	1.411	23.362	1.743	25.183	1.655	139
117	30	PAS	80329	3	49	22.634	1.083	24.402	1.549	35.528	3.542	36.139	3.887	229
118	30	PAS	80347	3	49	31.627	1.486	41.874	2.434	45.859	2.810	41.909	3.084	247
119	30	PAS	81080	2	35	19.261	1.655	28.097	2.732	38.362	2.595	34.482	2.438	345
120	30	PAS	81116	2	27	12.545	0.595	15.840	0.862	22.400	1.253	19.242	1.579	381
121	31	CR	80185	3	18	9.125	0.662	7.643	1.086	23.429	3.632	29.429	4.040	65
122	31	CR	80239	3	28	14.718	0.929	19.500	1.362	24.679	1.252	26.286	0.909	139
123	31	CR	80329	3	49	24.232	1.651	30.750	3.254	34.536	3.459	33.732	3.366	229
124	31	CR	80347	3	49	32.250	1.552	43.536	3.145	49.857	2.590	44.250	2.242	247
125	31	CR	81080	2	35	14.714	1.039	19.607	1.702	25.429	2.493	21.804	3.036	345
126	31	CR	81116	2	27	10.321	0.834	11.714	0.847	14.982	2.401	12.250	2.937	381
127	32	SR/F?C	80185	3	18	9.369	0.782	8.323	1.631	19.923	3.164	24.738	4.225	65
128	32	SR/F?C	80239	3	28	14.646	0.618	18.923	1.613	25.262	1.361	26.908	2.234	139
129	32	SR/F?C	80329	3	49	24.877	1.900	28.477	6.295	44.769	2.662	44.738	3.684	229
130	32	SR/F?C	80347	3	49	26.769	1.637	36.692	2.474	39.800	3.420	35.923	3.193	247
131	32	SR/F?C	81080	2	35	13.908	1.011	15.723	1.916	26.585	5.135	24.400	6.351	345
132	32	SR/F?C	81116	2	27	11.492	0.616	13.615	1.128	17.462	2.001	14.877	2.565	381
133	33	CR	80185	3	18	10.167	0.868	11.842	1.615	13.292	1.805	15.000	1.142	65
134	33	CR	80239	3	28	13.706	0.955	17.417	1.909	19.708	2.331	21.958	2.236	139
135	33	CR	80329	3	49	28.958	2.404	39.458	4.854	45.708	3.805	45.333	3.435	229
136	33	CR	80347	3	49	32.333	2.014	41.750	5.612	51.708	2.836	48.125	3.167	247
137	33	CR	81080	2	35	13.292	1.628	13.675	2.112	29.375	2.990	27.292	1.488	345
138	33	CR	81116	2	27	11.458	0.779	14.208	0.779	14.750	1.567	11.708	1.367	381
139	35	CR	80185	3	18	10.666	0.852	11.675	0.920	14.142	1.736	16.236	1.314	65
140	35	CR	80239	3	28	14.901	0.951	18.764	1.240	24.071	1.692	26.019	1.320	139
141	35	CR	80329	3	49	23.915	1.395	27.118	3.091	42.745	9.827	44.736	12.955	229
142	35	CR	80347	3	49	30.467	1.099	40.057	2.425	46.316	2.800	41.778	3.017	247
143	35	CR	81080	2	35	15.731	1.437	19.184	3.653	36.613	2.547	35.307	7.706	345
144	35	CR	81116	2	27	11.948	0.655	16.014	1.077	22.165	1.550	19.594	1.660	381
145	36	PAS	80185	3	18	10.391	0.715	12.128	1.123	16.821	1.851	18.974	2.364	65
146	36	PAS	80239	3	28	14.083	0.583	16.058	1.635	27.801	2.027	32.301	2.448	139
147	36	PAS	80329	3	49	30.474	1.297	42.846	2.625	48.878	2.105	46.846	2.226	229
148	36	PAS	80347	3	49	28.019	1.226	32.288	1.894	47.186	3.168	45.160	3.607	247
149	36	PAS	81080	2	35	13.904	0.949	17.353	1.106	23.064	3.043	19.327	2.507	345
150	36	PAS	81116	2	27	10.404	0.900	12.295	1.049	13.891	2.112	10.936	2.617	381
151	37	CR	80185	3	18	9.791	0.889	10.918	1.068	15.945	1.905	18.727	2.445	65
152	37	CR	80239	3	28	16.000	1.496	21.718	2.783	26.673	1.575	27.573	1.923	139
153	37	CR	80329	3	49	26.418	1.667	34.173	3.165	43.155	2.549	41.764	2.967	229
154	37	CR	80347	3	49	27.064	1.060	26.709	1.903	57.691	2.097	59.400	3.028	247
155	37	CR	81080	2	35	20.509	1.895	29.309	3.573	36.991	2.402	29.709	2.252	345
156	37	CR	81116	2	27	13.309	0.821	18.955	1.461	22.173	2.238	17.218	2.052	381
157	38	PAS	80185	3	18	9.398	1.044	10.656	1.426	12.398	1.438	14.538	1.307	65
158	38	PAS	80239	3	28	14.301	0.791	17.989	1.098	23.301	1.559	24.237	1.448	139
159	38	PAS	80329	3	49	24.968	1.078	28.097	2.106	41.516	3.571	42.645	4.048	229
160	38	PAS	80347	3	49	29.021	1.142	31.935	1.944	44.484	2.394	42.581	2.429	247
161	38	PAS	81080	2	35	15.731	1.153	16.720	1.263	39.462	4.200	36.473	4.840	345
162	38	PAS	81116	2	27	12.452	0.573	14.527	1.290	28.828	4.257	25.559	4.114	381
163	39	PAS	80185	3	18	9.846	0.873	10.642	1.079	14.434	1.360	16.670	1.293	65
164	39	PAS	80239	3	28	14.186	1.017	16.415	1.368	24.969	1.643	28.129	1.345	139
165	39	PAS	80329	3	49	23.544	1.136	24.355	1.294	45.321	3.676	49.491	3.955	229
166	39	PAS	80347	3	49	27.186	1.146	26.006	1.783	56.000	3.285	57.491	3.665	247
167	39	PAS	81080	2	35	14.409	1.185	17.233	1.437	29.786	5.903	27.447	6.572	345
168	39	PAS	81116	2	27	12.984	0.800	17.928	1.277	20.717	1.623	16.531	1.237	381

Segment 0604

STATISTICAL ANALYSIS SYSTEM 14:39 FRIDAY, MAY 20, 1983 4

OBS	FLD	CROP	ACQNO	LNDSAT	SUNANG	MEAN1	STND1	MEAN2	STND2	MEAN3	STND3	MEAN4	STND4	REFDT
169	40	CR	80185	3	18	10.624	0.896	12.451	1.169	13.994	1.375	15.523	1.219	65
170	40	CR	80239	3	28	15.361	1.004	18.882	1.431	25.303	1.641	26.977	1.345	139
171	40	CR	80329	3	49	23.382	1.035	25.991	1.206	39.399	3.338	41.720	3.736	229
172	40	CR	80347	3	49	27.413	1.418	34.058	2.680	37.049	3.115	34.084	3.113	247
173	40	CR	81080	2	35	14.520	1.182	18.685	1.976	29.535	1.888	26.986	1.456	345
174	40	CR	81116	2	27	16.723	0.760	12.656	0.984	16.335	1.625	14.569	1.572	381
175	41	CR	80185	3	18	9.944	0.730	11.704	0.822	11.319	0.674	12.681	1.328	65
176	41	CR	80239	3	28	14.249	0.956	17.708	1.433	19.741	2.160	20.870	1.774	139
177	41	CR	80329	3	49	27.186	1.145	36.638	2.124	41.010	2.562	40.465	2.040	229
178	41	CR	80347	3	49	28.262	1.291	32.488	1.847	49.326	1.713	48.372	1.839	247
179	41	CR	81080	2	35	12.718	0.768	15.219	1.054	22.369	2.619	19.292	2.418	345
180	41	CR	81116	2	27	9.900	0.907	11.003	1.034	16.532	1.865	14.425	1.818	381
181	42	PAS	80185	3	18	8.496	0.777	8.472	0.934	7.940	1.104	9.591	1.019	85
182	42	PAS	80239	3	28	14.301	1.016	18.615	1.190	21.842	1.910	23.785	1.284	139
183	42	PAS	80329	3	49	23.806	1.027	24.460	1.034	49.507	2.112	53.956	2.347	229
184	42	PAS	80347	3	49	25.767	1.283	21.397	1.552	60.233	2.708	66.018	4.016	247
185	42	PAS	81080	2	35	12.881	0.894	15.603	1.737	28.758	1.757	30.466	2.186	345
186	42	PAS	81116	2	27	11.484	0.660	15.131	1.179	18.964	1.637	18.388	1.088	381
187	44	PAS	80185	3	18	9.728	0.693	11.545	0.977	12.233	1.622	14.249	1.897	85
188	44	PAS	80239	3	28	15.106	0.865	20.270	1.134	23.519	1.639	25.135	1.285	139
189	44	PAS	80329	3	49	25.537	1.223	27.357	1.556	47.196	2.833	49.405	2.984	229
190	44	PAS	80347	3	49	27.714	1.213	25.323	1.685	59.487	2.634	61.643	3.016	247
191	44	PAS	81080	2	35	16.439	1.229	22.347	2.084	37.341	2.057	36.622	2.173	345
192	44	PAS	81116	2	27	12.429	0.575	16.926	0.944	25.122	1.562	23.741	1.249	381

Fields 12, 17a, 29, 34, and 44b were not extracted.

REFERENCES

1. D. Hicks, B. Sellman, E. Sheffner, G. Thomas, and B. Wood. 1981 Argentina Ground Data Collection, AgRISTARS Technical Report SR-E1-04174, Environmental Research Institute of Michigan, Ann Arbor, Michigan, and Space Science Laboratory, Berkeley, California, October 1981.

2. D. Hicks. Agronomic Characterization of the Argentina Indicator Region. AgRISTARS Technical Report, SR-E2-04222, January 1982.

3. C. J. Ramirez and C. R. Reed. Selection of the Argentina Indicator Region, AgRISTARS Technical Report, IT-L1-04132, March 1982.

4. D. Helmer, J. Krantz, M. Tompkins, and G. D. Badhwar. User Guide for Extraction of Landsat Spectral and Agronomic Data, AgRISTARS Technical Report, SR-L3-00761.

5. A. Wacker. Empirically Determined Calibration Differences Between MDP-LIVES and LACIE Processed Data, AgRISTARS Technical Report, SR-J1-04133, 1981.

APPENDIX

ADDITIONAL COMMENTS OF SELECTED FIELDS

Seg. 0681

Field 7:
- previous notes indicate two fields later in acquisition history.
- signature sequence more closely follows that of other identified soybean fields.

Field 9:
- most of acquisitions are bare soil.
- signature sequence follows that of other corn fields in scene.

Field 17:
- acquisition history and crop calendar do not provie enough insight to make a decision—the possibility remains that field could be soybeans planted a little earlier than the other fields and that the '80 acquisitions had another crop.

Field 27:
- signature sequence could represent corn—is not typical of other soybean fields in scene.

Seg. 0604: all were questioned or commented in some fashion on signature description sheet.

Field 5:
- signature description sheet--line under Field #5 indicates question on ground truth label—do not think it is corn—don't know what it is.

Field 8:
- possibility of corn or alfalfa.
- most likely is not pasture.

Field 17:
- highly questionable as to what is in field—most likely BS.

Field 24:
- don't believe it is corn; question as to what it is.

Field 31:
- not corn; questionable as to what it is.

Field 35:
- not corn; questionable as to what it is.

Field 40:
- not corn; questionable; appears to be mostly BS.

Field 41:
- not corn; questionable; appears to be mostly BS.

Field 42:
- probably not pasture—could be corn.

Fields 44A & 44B(45):
- may not be pasture—could be corn—has a similar signature sequence.

Seg. 0561

Field 6:
- soybeans may be correct--crop calendar does not offer other solutions.

Seg. 0682

Field 20:
- date 80254 is another crop; CR probably right.

Seg. 0520

Field 1: was BS when inventoried.
- signature sequences do not seem to follow SY--maybe CR.

Field 2: was BS when inventoried.
- 80255?; maybe CR; nearly same signature sequence as 1.

Field 3:
- BS when inventoried; maybe barley for forage--assumption based on crop calendar.

Field 7:
- 81114--appears to be two fields.
- assumptions based on crop calendar--questionable

  --plowing 11 Feb
  --inventory 24 Feb
  --oats planted beginning June based on crop calendar
  --maybe barley for forage.

Field 13:
- must make same assumptions as Field 7.
- if it is oats, it was planted very early.

Field 14:
- same situation as Fields 7 and 13.

Field 16:
- may have been pasture on the inventory data but was plowed by 81114.
- unlike U.S., Argentina pastures are not static, they come and go.

Field 17:
- planted later than Fields 7, 13, and 14 during 1981.
- may have been harvested oats at time of inventory.
- after plowing--choices are alfalfa or barley for forage; may also be early seeded oats.